

## SAFETY DATA SHEET

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

## Silicone Spray

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

1.1. Product identifier

Product name : Silicone Spray

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

Lubricant

#### 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 **3** +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
Aerosol	categ <mark>ory 1</mark>	H222: Extremely flammable aerosol.
Aerosol	categ <mark>ory 1</mark>	H229: Pressurised container: May burst if heated.
Skin Irrit.	categ <mark>ory 2</mark>	H315: Causes skin irritation.
STOT SE	category 3	H336: May cause drowsiness or dizziness.
Aquatic Chronic	category 2	H411: Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements







Contains: hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.

Signal word H-statements H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.

P-statements

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

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel

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1/19 Product number: 47919

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 protective gloves, protective clothing and eye protection/face 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 in accordance with local/regional/national/international regulation.

#### 2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name REACH Registration No		CAS No EC No	C	Conc. (C)	Classification according to CLP	Note	Remark
hydrocarbons, C7, n-alkanes, iso 01-2119475515-33	alkanes, cyclics		1		Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	UVCB
hydrocarbons, C6, isoalkanes, < 5	5% n-hexane		C		Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336	(1)(10)	UVCB
n-hexane 01-2119480412-44		110-54-3 203-777-6	C		Flam. Liq. 2; H225 Repr. 2; H361f Asp. Tox. 1; H304 STOT RE 2; H373 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(2)(8)(10)	Constituent
cyclohexane 01-2119463273-41		110-82-7 203-806-2	C		Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(10)	Constituent
propane 01-2119486944-21		74-98-6 200-827-9	C		Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
butane 01-2119474691-32		106-97-8 203-448-7	C		Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant

<sup>(1)</sup> For H-statements in full: see heading 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

#### General:

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

#### After inhalation:

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

#### After skin contact:

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

#### After eye contact:

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

#### After ingestion:

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

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<sup>(2)</sup> Substance with a Community workplace exposure limit

<sup>(8)</sup> Specific concentration limits, see heading 16

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

#### 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. Irritation of the nasal mucous membranes. Coughing. Dizziness. Narcosis. Central nervous system depression. Headache.

After skin contact:

Red skin. Tingling/irritation of the skin.

After eye contact:

Redness of the eye tissue.

After ingestion:

Headache. EXPOSURE TO HIGH CONCENTRATIONS: Vomiting. Diarrhoea.

#### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

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

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

#### 5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed. Pressurised container: May burst if heated.

#### 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: persistant risk of physical explosion. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective goggles. Head/neck protection. 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 explosion proof 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. Head/neck protection. 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. Gas/vapour heavier than air at 20°C. 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 at room temperature. Keep out of direct sunlight. Ventilation at floor level. Fireproof storeroom. Protect against frost. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

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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.

EU			
Cyclohexane		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	200 ppm
		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	700 mg/m <sup>3</sup>
n-Hexane		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	20 ppm
		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	72 mg/m <sup>3</sup>
Belgium			
Cyclohexane		Time-weighted average exposure limit 8 h	100 ppm
		Time-weighted average exposure limit 8 h	350 mg/m <sup>3</sup>
Hydrocarbures aliphatiq C4)	ues sous forme gazeuse : (Alcanes C1-	Time-weighted average exposure limit 8 h	1000 ppm
n-Hexane		Time-weighted average exposure limit 8 h	20 ppm
		Time-weighted average exposure limit 8 h	72 mg/m <sup>3</sup>
The Netherlands			
Cyclohexaan		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	200 ppm
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	700 mg/m <sup>3</sup>
		Short time value (Public occupational exposure limit value)	400 ppm
		Short time value (Public occupational exposure limit value)	1400 mg/m
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/n
n-Hexaan		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	20 ppm
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	72 mg/m <sup>3</sup>
		Short time value (Public occupational exposure limit value)	40 ppm
		Short time value (Public occupational exposure limit value)	144 mg/m <sup>3</sup>
France			
Cyclohexane		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	200 ppm
		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	700 mg/m <sup>3</sup>
		Short time value (VL: Valeur non réglementaire indicative)	375 ppm
		Short time value (VL: Valeur non réglementaire indicative)	1300 mg/n
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/n
n-Hexane		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	20 ppm
		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	72 mg/m <sup>3</sup>
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
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la						
Cyclohexan			Time-weighted average ex	xposure limit 8 h (TRGS 90	0)	200 ppm
				xposure limit 8 h (TRGS 90		700 mg/m <sup>3</sup>
n-Hexan		1	Time-weighted average ex	xposure limit 8 h (TRGS 90	0)	50 ppm
			Time-weighted average ex	xposure limit 8 h (TRGS 90	0)	180 mg/m <sup>3</sup>
Propan				xposure limit 8 h (TRGS 90	·	1000 ppm
			Time-weighted average ex	xposure limit 8 h (TRGS 90	0)	1800 mg/m
UK						
Butane			Time-weighted average ex EH40/2005))	xposure limit 8 h (Workpla	ce exposure limit	600 ppm
			Fime-weighted average ex EH40/2005))	xposure limit 8 h (Workpla	ce exposure limit	1450 mg/m
				ace exposure limit (EH40/2		750 ppm
				ace exposure limit (EH40/2		1810 mg/m
Cyclohexane		(	EH40/2005))	xposure limit 8 h (Workpla xposure limit 8 h (Workpla		100 ppm 350 mg/m <sup>3</sup>
		(	EH40/2005))			<u> </u>
				ace exposure limit (EH40/2 ace exposure limit (EH40/2		300 ppm 1050 mg/m
n-Hexane				xposure limit (EH40/2		20 ppm
II-IIEAGIIE		<u>(</u>	EH40/2005))	` `		
			Fime-weighted average ex EH40/2005))	xposure limit 8 h (Workpla	ce exposure limit	72 mg/m <sup>3</sup>
USA (TLV-ACGIH)						
Butane, all isomers			Short time value (TLV - Ad			1000 ppm
Cyclohexane				xposure limit 8 h (TLV - Ad		100 ppm
n-Hexane			Time-weighted average ex	xposure limit 8 h (TLV - Ad	opted Value)	50 ppm
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4,5-Dihydroxy-2-Hexano Hydrolyse))  USA (BEI-ACGIH)  n-Hexane (2,5-Hexanedi 2.2 Sampling methods if applicable and available Cyclohexane (Hydrocarboxane Cyclohexane (Hydrocarboxane Cyclohexane (Hydrocarboxane n-Hexane (Hydrocarboxane n-Hexane (Volatile Organic and ir n-Hexane (	on) le it will be listed ons, BP36 to 12 s, BP36 to 126C) norganic gases benic compounds) s when using the able and available and available liberation in the able and available liberation in the a	Urine: end of shift at e below.  5C)  y Extractive FTIR)  e substance or mixture e these will be listed be cyclics  pe ng-term systemic effect cane pe ng-term systemic effect cane pe ng-term systemic effect cane	schichtende bzw. schichtende  nd of workweek  NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH OSHA as intended low.	1500 95-117 7 1500 3800 2549 95-117 7  Value 2085 mg/m³ 300 mg/kg bw/day  Value 5306 mg/m³	Remark  Remark	G atskommiss schädlicher
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4,5-Dihydroxy-2-Hexano Hydrolyse))  USA (BEI-ACGIH)  n-Hexane (2,5-Hexanedi 2 Sampling methods If applicable and availabl Cyclohexane (Hydrocarbo Cyclohexane n-Hexane (Hydrocarbon n-Hexane (Indicate organic and in n-Hexane (Volatile Organ n-Hexane Effect level (DNEL/DM DNEL n-hexane Effect level (DNEL/DM	on) le it will be listed ons, BP36 to 12 s, BP36 to 126C) norganic gases benic compounds) s when using the able and available and available liel. It lo	Urine: end of shift at e below.  5C)  y Extractive FTIR)  e substance or mixture e these will be listed be  cyclics  pe ng-term systemic effect ane pe ng-term systemic effect	schichtende bzw. schichtende  nd of workweek  NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH OSHA as intended low.  s inhalation s dermal	A   S   mg/l   S   P     A	rbeitsstoffe der DFG/2013 Ständige Sen rüfung gesundheits rbeitsstoffe der DFG	G atskommissi schädlicher
4,5-Dihydroxy-2-Hexano Hydrolyse))  USA (BEI-ACGIH)  n-Hexane (2,5-Hexanedi 2 Sampling methods If applicable and availabl Cyclohexane (Hydrocarbo Cyclohexane n-Hexane (Hydrocarbon n-Hexane (Indicate organic and in n-Hexane (Volatile Organ n-Hexane Effect level (DNEL/DM DNEL n-hexane Effect level (DNEL/DM	on) le it will be listed ons, BP36 to 12 s, BP36 to 126C) norganic gases benic compounds) s when using the able and available and available liel. It lo	Urine: end of shift at e below.  5C)  y Extractive FTIR)  e substance or mixture e these will be listed be  cyclics  pe ng-term systemic effect ane pe ng-term systemic effect	schichtende bzw. schichtende  nd of workweek  NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH OSHA as intended low.  s inhalation s dermal	A   S   mg/l   S   P     A	Remark  Remark  Remark	G atskommissi schädlicher

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Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	700 mg/m³	TOTAL
=	Acute systemic effects inhalation	700 mg/m³	
	Long-term local effects inhalation	700 mg/m³	
	Acute local effects inhalation	700 mg/m³	
	Long-term systemic effects dermal	2016 mg/kg bw/day	
NEL/DMEL - General population		1 0. 0 . ,	<b>!</b>
drocarbons, C7, n-alkanes, iso	alkanes, cyclics		
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	447 mg/m³	
	Long-term systemic effects dermal	149 mg/kg bw/day	
	Long-term systemic effects oral	149 mg/kg bw/day	
drocarbons, C6, isoalkanes, <	5% n-hexane		
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	1131 mg/m³	
	Long-term systemic effects dermal	1377 mg/kg bw/day	
	Long-term systemic effects oral	1301 mg/kg bw/day	
<u>hexane</u>			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	16 mg/m³	
	Long-term systemic effects dermal	5.3 ng/kg bw/day	
		4 mg/kg bw/day	

Effect level (DNEL/DM	EL)	Туре	Value	Remark
DNEL		Long-term systemic effects inhalation	206 mg/m <sup>3</sup>	
		Acute systemic effects inhalation	412 mg/m <sup>3</sup>	
		Long-term local effects inhalation	206 mg/m³	
		Acute local effects inhalation	412 mg/m³	
		Long-term systemic effects dermal	1186 mg/kg bw/day	
		Long-term systemic effects oral	59.4 mg/kg bw/day	

#### PNEC

cyclohexane

Compartments	Value	Remark
Fresh water	<mark>0.207 m</mark> g/l	
Marine water	<mark>0.207 mg</mark> /l	
Aqua (intermittent rele <mark>ases)</mark>	<mark>0.207 m</mark> g/l	
STP	3.24 mg/l	
Fresh water sediment	3.627 mg/kg sediment dw	
Marine water sediment	3.627 mg/kg sediment dw	
Soil	<mark>2.99 mg</mark> /kg soil dw	

#### 8.1.5 Control banding

If applicable and available it will be listed below.

#### 8.2. Exposure controls

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

#### 8.2.1 Appropriate engineering controls

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

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

Observe 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 (good resistance)

Nitrile rubber.

#### 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

Reason for revision: 2;3 Publication date: 2009-02-11 Date of revision: 2017-03-17

Revision number: 0401 Product number: 47919 6/19

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Aerosol	
Characteristi	codour
no data avail	able
Variable in co	plour, depending on the composition
no data avail	a <mark>b</mark> le
1.1 - 9.5 vol %	6
Extremely fla	mmable aerosol.
Not applicab	e (mixture)
1 mPa.s ; 20 '	°C
1 mm²/s ; 20	°C
no data avail	able
-140 °C - 95 °	C
no data avail	able able
7 ; butyl acet	ate
> 1	
8530 hPa ; 20	)°C
water ; insolu	ıble
0.74 ; 20 °C	
no data avail	able
365 °C	
No chemical	group associated with explosive properties
No chemical	group associated with oxidising properties
no data avail	able
	Characteristic no data avail: Variable in cono data avail: 1.1 - 9.5 vol 9 Extremely fla Not applicabl 1 mPa.s; 20 1 mm²/s; 20 no data avail: -140 °C - 95 ° no data avail: 7; butyl acet > 1 8530 hPa; 20 water; insolu 0.74; 20 °C e no data avail: 365 °C No chemical

#### 9.2. Other information

Absolute density 737 kg/m³

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

No data available.

#### 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

Silicone Spray

No (test)data on the mixture available

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Route of exposure	Parameter	Method	Value	Exposure time	-	Value determination	Remark
Oral	LD50		> 5840 mg/kg bw		Rat (male/female)	Read-across	
Dermal	LD50	Other	> 2800 mg/kg bw	24 h	Rat (male/female)	Read-across	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 23.3 mg/l air	4 h	Rat (male/female)	Read-across	

Reason for revision: 2;3 Publication date: 2009-02-11
Date of revision: 2017-03-17

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Document	hydrocarbons, C6, isoa			Value	Exposure time	Species	Value	Remark
Dermal	Route of exposure	Paramete	er ivietnoa	value	Exposure time	species		Remark
Dermal D50 Squarelent to D5CD 23350 mg/kg two 4h Nat (male) Read across headson (vapours) LCSO Squarelent to D5CD 25334 mg/m² 4h Rat (male) Read-across headson (vapours) LCSO Squarelent to D5CD 25334 mg/m² 4h Rat (male) Read-across headson (vapours) LCSO Squarelent to D5CD 3500 mg/kg two 4h Rat (male/female) Experimental value D5CD 2500 mg/kg two 4h Rat (male/female) Experimental value D5CD 2500 mg/kg two 4h Rat (male/female) Experimental value D5CD 2500 mg/kg two 4h Rat (male) Read-across D5CD 2500 mg/kg two 4h Rat (male/female) Experimental value D5CD 2500 mg/kg two 4h Rat (male/female) Experimental value 4mg/female) Experimental value 5mg/female Experimental value 5mg/femal	Oral	LD50	*	> 16750 mg/kg b	w	Rat (male)	Read-across	
Inhexance Route of exposure Parameter Method Value Exposure time Species Value determination (appoint of exposure) Route of exposure Parameter Method Supulation to OECD 401  Dermal USS Equivalent to OECD 401  Dermal USS Equivalent to OECD 402  Inholation (vapours) LCS0 Equivalent to OECD 402  Inholation (vapours) LCS0 Equivalent to OECD 5000 ppm 24 h Rat (male/firmale) Experimental value Exposure time Rat (male/firmale) Experimental value Retermination (vapours) LCS0 Equivalent to OECD 5000 ppm 24 h Rat (male/firmale) Experimental value Retermination (vapours) LCS0 Equivalent to OECD 5000 ppm 24 h Rat (male/firmale) Experimental value Retermination (vapours) LCS0 Equivalent to OECD 5000 mg/rg bw (male/firmale) Experimental value (male/firmale)	Dermal	LD50	Equivalent to OECD	> 3350 mg/kg bw	v 4 h	Rabbit (male)	Read-across	
Route of exposure Parameter Method Oral D50 Equivalent to OECD 15000 mg/kg bw Oral D50 Equivalent to OECD 15000 mg/kg bw Inhabition (vapours) LCS0 Equivalent to OECD 53350 mg/kg bw Inhabition (vapours) LCS0 Equivalent to OECD 5000 pgm 24 h Rat (male) Experimental value Volonexan Route of exposure Route of exposure Parameter Route of exposure Route	Inhalation (vapour	s) LC50	Equivalent to OECD	259354 mg/m <sup>3</sup>	4 h	Rat (male)	Read-across	
Route of exposure Parameter Method   Value   Exposure time   Species   Value   Remark determination   Remark determination   Donard   Dona	,		403					
Drai		Paramete	er Method	Value	Exposure time	Species		Remark
Dermal DSO Equivalent to DECD 9.3350 mg/kg bw 4 h Rat (male) Read-across 1.00 molation (vapours) 1.00 Equivalent to DECD 9.000 ppm 24 h Rat (male) Experimental value 2.00 Decade Route of exposure Parameter Method Value Exposure time Species (value determination Remark determination Value Institution (vapours) LCSO Equivalent to DECD 9.000 mg/kg bw Ration (vapours) LCSO Equivalent to DECD 9.000 mg/kg bw Malo Institution (vapours) LCSO Equivalent to DECD 9.32.88 mg/l air 4 h Rat (male/female) Experimental value Malo Institution (vapours) LCSO Equivalent to DECD 9.32.88 mg/l air 4 h Rat (male/female) Experimental value Malo Institution (vapours) LCSO Equivalent to DECD 9.32.88 mg/l air 4 h Rat (male/female) Experimental value Malo Institution (vapours) LCSO Equivalent to DECD 9.32.88 mg/l air 4 h Rat (male/female) Experimental value Malo Institution (vapours) LCSO Equivalent to DECD 9.32.88 mg/l air 4 h Rat (male/female) Experimental value Malo Institution (vapours) LCSO Equivalent to DECD 9.32.88 mg/l air 4 h Rat (male/female) Experimental value Malo Institution (vapours) LCSO Equivalent to DECD 9.32.88 mg/l air 4 h Rat (male/female) Experimental value Malo Institution (vapours) LCSO Equivalent to DECD 9.32.88 mg/l air 4 h Rat (male/female) Experimental value Malo Institution (vapours) LCSO Equivalent to DECD 9.32.88 mg/l air 4 h Rat (male/female) Experimental value Malo Institution (value Malo Instit	Oral	LD50	*	16000 mg/kg bw	'	Rat (male/female)		
Inhalation (vapours) LCSO   Equivalent to OECD   5000 ppm   24 h   Rat (male)   experimental value	Dermal	LD50	Equivalent to OECD	> 3350 mg/kg bv	v 4 h	Rabbit (male)	Read-across	
Route of exposure Result  Route of exposure Parameter   Method   Value   Exposure time   Species   Value   Remark   Method   Value   Remark   Method   Malue	Inhalation (vapour	s) LC50	Equivalent to OECD	> 5000 ppm	24 h	Rat (male)	Experimental value	
Route of exposure   Parameter   Method   Value   Exposure time   Species   Value   Remark   Method   M	<u> </u>		403					
Doral D50 Equivalent to DECD A01 power land land land land land land land land		Paramete	er Method	Value	Exposure time	Species		Remark
Dermal LD50 Equivalent to OECD 402 (male/female) Experimental value (male/female) Experimental valu	Oral	LD50		> 5000 mg/kg bw	v	Rat (male/female)		
Inhalation (vapours)  ICSO  Equivalent to OECD  32.88 mg/l air 4 h  Rat (male/female)  Experimental value  Inhalation (vapours)  ICSO  Equivalent to OECD  19.07 mg/l  4 h  Rat (male/female)  Experimental value  Experimental value  Experimental value  IUdgement is based on the relevant ingredients  Onctusion  Cone Spray  Not classified as on the mixture available  Hydrocarbons, C.C., nalkanes, isoalkanes, cyclics  Route of exposure  Result  Method  Exposure time  Time point  Species  Value  determination  Read-across  Single treatm  Spin  Experimental value  Exposure time  Time point  Species  Value  determination  Read-across  Inhexane  Route of exposure  Result  Method  Exposure time  Time point  Species  Value  determination  Remark  determinatio	Dermal	LD50	Equivalent to OECD	> 2000 mg/kg bw	v		Experimental value	
Inhalation (vapours)  LCSO  Equivalent to OECD  A03  Judgement is based on the relevant ingredients onclusion  Not classified for acute toxicity  posion/irritation  cone Spray  No (test)data on the mixture available  hydrocarbons, C7, n-alkanes, isoalkanes, cyclics  Route of exposure  Result  Method  Exposure time  Time point  Species  Rabbit  Read-across  Single treatm  Skin irritating  Skin irritating  OECD 404  Hydrocarbons, C5, isoalkanes, <5% n-hexane  Route of exposure  Result  Method  Exposure time  Time point  Species  Abbit  Read-across  Value  determination  Read-across  Method  Exposure time  Time point  Species  Value  determination  Read-across  Single treatm  Read-across  Single treatm  Time point  Species  Value  determination  Read-across  DECD 403  Ah  DECD 403  Ah  DECD 404  Ah  DECD 405  Skin  Not irritating  OECD 404  Ah  DECD 405  Skin  Phename  Route of exposure  Result  Method  Exposure time  Time point  Species  Value  determination  Read-across  DECD 405  Skin irritating  Equivalent to  OECD 405  S	Inhalation (vapour	s) LC50	Equivalent to OECD	> 32.88 mg/l air	4 h		Experimental value	
Judgement is based on the relevant ingredients to conclusion Not classified for acute toxicity obsion/irritation  cone Spray No (test)data on the mixture available hydrocarbons, C7, n.alkanes, isoalkanes, cyclics  Route of exposure Result Method Exposure time Time point Species determination  Eye Not irritating Equivalent to 0+CCD 404 D4+C24; 48; 72 hours Rabbit Read-across Single treatm O+CCD 405 D4+C24; 48; 72 hours Rabbit Read-across Single treatm Route of exposure Result Nethod Exposure time Time point Species Value determination Remark determination Remark determination Remark determination Remark D4+C24; 48; 72 hours Rabbit Read-across D4+C24; 72 hours Rabbit Read-across D6+C0 404 D4+C24; 72 hours Rabbit Read-across D6+C0 404 D6+C0 405	Inhalation (vapour	s) LC50		> 19.07 mg/l	4 h	Rat (male/female)	Experimental value	
Conclusion Not classified for acute toxicity osion/irritation  Cone Spray No (test)data on the mixture available hydrocarbons, C7, n-alkanes, isoalkanes, cyclics  Route of exposure Eye Not irritating Equivalent to OECD 404  hydrocarbons, C6, isoalkanes, <5% n-hexane  Route of exposure Result Method Exposure time  Route of exposure Result Method Exposure time  Eye Not irritating Equivalent to 72 h 72 hours Rabbit Read-across  Sidin Not irritating Equivalent to 72 h 72 hours Rabbit Experimental value  Eye Not irritating Equivalent to 72 h 72 hours Rabbit Experimental value  Eye Not irritating Equivalent to 72 h 72 hours Rabbit Experimental value  Eye Not irritating Equivalent to 0 FCCD 405  Sidin Not irritating Equivalent to 0 FCCD 405  Sidin Irrit							1	
Eye Not irritating Equivalent to OECD 404    Not irritating   Equivalent to OECD 404   Page	No (test)data on the m	ivturo availa						
Skin Irritating Equivalent to OECD 404 hydrocarbons, C6, isoalkanes, <5% n-hexane Route of exposure Result Method Exposure time Time point Species Value determination Eye Not irritating OECD 405 Skin Not irritating OECD 404 4 h 24; 48; 72 hours Rabbit Experimental value n-hexane Route of exposure Result Method Exposure time Time point Species Value determination Eye Not irritating OECD 404 4 h 24; 48; 72 hours Rabbit Experimental value n-hexane Route of exposure Result Method Exposure time Time point Species Value determination Eye Not irritating Equivalent to OECD 405 Skin Irritating Equivalent to OECD 404 Skin Irritating Equivalent to OECD 404 Skin Irritating Equivalent to OECD 404 Skin Irritating Equivalent to OECD 405 Skin Irritating Equivalent to OECD 404 Cyclohexane Route of exposure Result Method Exposure time Time point Species Value determination Eye Slightly irritating Equivalent to OECD 405 Skin Not irritating to the eyes Not classified as irritating to the eyes Not classified as irritating to the respiratory system		kanes, isoalk	canes, cyclics	Evnosuro timo	Time point	Species	Value	Domark
Route of exposure Result Method Exposure time Time point Species Value determination Eye Not irritating Equivalent to OECD 405 Skin Not irritating OECD 404 4 h 24; 48; 72 hours Rabbit Experimental value  Eye Not irritating OECD 404 4 h 24; 48; 72 hours Rabbit Experimental value  Network of exposure Result Method Exposure time Time point Species Value determination  Eye Not irritating Equivalent to OECD 405 Skin Not Irritating Equivalent to OECD 405 Skin Skin Not Irritating Equivalent to OECD 405 Skin Skin Not Irritat	Route of exposure	kanes, i <mark>soalk</mark> Result	Method	Exposure time			determination	
Route of exposure Result Method Exposure time Time point Species Value determination  Eye Not irritating Equivalent to OECD 405  Skin Not irritating OECD 404 4 h 24; 48; 72 hours Rabbit Experimental value  n-hexane  Route of exposure Result Method Exposure time Time point Species Value determination  Eye Not irritating Equivalent to OECD 405  Skin Irritating Equivalent to OECD 405  Skin Irritating Equivalent to OECD 404  Skin Irritating Equivalent to OECD 404  Skin Irritating Equivalent to OECD 404  Exposure time Time point Species Value Read-across  Cyclohexane  Route of exposure Result Method Exposure time Time point Species Value determination  Eye Slightly irritating Equivalent to OECD 405  Skin Not irritating Equivalent to OECD 405  Skin Irritation Irritating Equivalent to OECD 405  Skin Irritating Irritating It Umethod B.4 In Detail A. In Detail Irritation Irritating It Umethod B.4 In Detail Irritation	Route of exposure  Eye	kanes, i <mark>soalk</mark> <b>Result</b> Not irrit <mark>atin</mark>	Method		7 days	Rabbit	determination Read-across	
Eye Not irritating Equivalent to OECD 405 Skin Not irritating OECD 404 4 h 24; 48; 72 hours Rabbit Experimental value  n-hexane  Route of exposure Result Method Exposure time Time point Species Value determination Eye Not irritating Equivalent to OECD 405 Skin Irritating Equivalent to OECD 405 Skin Irritating Equivalent to OECD 404 Exposure time Time point Species Value determination Read-across Skin Irritating Equivalent to OECD 405 Skin Irritating Equivalent to OECD 404 Exposure time Time point Species Value determination Eye Slightly irritating Equivalent to OECD 405 Skin Not irritating Equivalent to OECD 405 Skin Not irritating Equivalent to OECD 405 Skin Not irritating EQUIVALENT Exposure time Time point Species Value determination Experimental value Experimental value Inhalation Irritating EQUIVALENT Experimental value Uterature study Classification is based on the relevant ingredients Onclusion Causes skin irritation. Not classified as irritating to the eyes Not classified as irritating to the respiratory system irratory or skin sensitisation	Route of exposure  Eye	kanes, i <mark>soalk</mark> <b>Result</b> Not irrit <mark>atin</mark>	Method  g  Equivalent to		7 days	Rabbit	determination Read-across	
Skin   Not irritating   Equivalent to OECD 404   Exposure time   Time point   Species   Value determination   Read-across	Route of exposure  Eye Skin hydrocarbons, C6, isoa	kanes, isoalk Result Not irritating Irritating Ikanes, < 5%	Method  B Equivalent to OECD 404 6 n-hexane	4 h	7 days 24; 48; 72 hours	Rabbit Rabbit	determination Read-across Read-across	Single treatme
Route of exposure   Result   Method   Exposure time   Time point   Species   Value   Remark   determination   Remark   Eye   Not irritating   Equivalent to   OECD 405   Skin   Irritating   Equivalent to   OECD 404   24 h   OECD 404   Cyclohexane   Route of exposure   Result   Method   Exposure time   Time point   Species   Value   determination   Remark   Cept 405   Skin   Not irritating   Equivalent to   OECD 405   Skin   Not irritating   Equivalent to   OECD 405   Skin   Not irritating   Eu Method B.4   4 h   Cept 448; 72 hours   Rabbit   Experimental value   Literature study   Classification is based on the relevant ingredients   Classification is based on the relevant ingredients   Classified as irritating to the eyes   Not classified as irritating to the respiratory system   Classified   Classifie	Route of exposure  Eye Skin hydrocarbons, C6, isoa	kanes, isoalk Result Not irritating Irritating Ikanes, < 5%	Method  g  Equivalent to OECD 404  n-hexane  Method	4 h	7 days 24; 48; 72 hours	Rabbit Rabbit	determination Read-across Read-across Value	Single treatme
Route of exposure Result Method Exposure time Time point Species Value determination  Eye Not irritating Equivalent to OECD 405  Skin Irritating Equivalent to OECD 404  Cyclohexane  Route of exposure Result Method Exposure time Time point Species Value determination  Eye Slightly irritating Equivalent to OECD 405  Skin Not irritating Equivalent to OECD 405  Skin Not irritating Equivalent to OECD 405  Skin Not irritating EQUIVALENCE EXPOSURE Time Time point Species Value determination  Eye Slightly irritating EQUIVALENCE EXPOSURE Time Time point Experimental value Experimental value Uiterature study  Classification is based on the relevant ingredients conclusion  Causes skin irritating to the eyes  Not classified as irritating to the respiratory system iiratory or skin sensitisation	Route of exposure  Eye Skin hydrocarbons, C6, isoa Route of exposure	kanes, isoalk Result Not irritating Irritating Ikanes, < 5% Result	Method  g  Equivalent to OECD 404  on-hexane  Method  g  Equivalent to OECD 405	4 h  Exposure time	7 days 24; 48; 72 hours e Time point	Rabbit Rabbit Species	determination Read-across Read-across  Value determination	Single treatme
Eye Not irritating Equivalent to OECD 405  Skin Irritating Equivalent to OECD 404  Skin Irritating Equivalent to OECD 404  Eye Slightly irritating Equivalent to OECD 405  Skin Not irritating EU Method B.4 4 h 24; 48; 72 hours Rabbit Experimental value Inhalation Irritating Irritating EU Method B.4 4 h 24; 48; 72 hours Rabbit Experimental value Inhalation Irritation  Causes skin irritation.  Not classified as irritating to the eyes  Not classified as irritating to the respiratory system irritatory or skin sensitisation	Route of exposure  Eye Skin hydrocarbons, C6, isoa Route of exposure  Eye	kanes, isoalk Result  Not irritating Irritating Ikanes, < 5% Result  Not irritating	Method  g  Equivalent to OECD 404  on-hexane  Method  g  Equivalent to OECD 405	4 h  Exposure time	7 days 24; 48; 72 hours  Time point 72 hours	Rabbit Rabbit Species Rabbit	determination Read-across Read-across  Value determination Read-across	Single treatme
Skin Irritating Equivalent to OECD 404  Exposure time Time point Species Value determination  Eye Slightly irritating Equivalent to OECD 405  Skin Not irritating EU Method B.4 4 h 24; 48; 72 hours Rabbit Experimental value Inhalation Irritating Irritating Irritating EU Method B.4 4 h 24; 48; 72 hours Rabbit Experimental value Inhalation Irritating Irritation.  Not classified as irritating to the eyes  Not classified as irritating to the respiratory system Irritatory or skin sensitisation	Route of exposure  Eye Skin hydrocarbons, C6, isoa Route of exposure  Eye Skin n-hexane	kanes, isoalk Result  Not irritating Irritating Ikanes, < 5% Result  Not irritating  Not irritating	Method  g  Equivalent to OECD 404  on-hexane  Method  g  Equivalent to OECD 405  g  OECD 405  g  OECD 404	4 h  Exposure time 72 h  4 h	7 days 24; 48; 72 hours  Time point 72 hours 24; 48; 72 hours	Rabbit Rabbit Species Rabbit Rabbit	determination Read-across Read-across  Value determination Read-across  Experimental value	Single treatme
Classification is based on the relevant ingredients  Conclusion  Causes skin irritating to the eyes  Not classified as irritating to the respiratory system  OECD 404  Exposure time Time point Species Value determination  I hour Rabbit Experimental value Experimental value OECD 405  Literature study  Classification is based on the relevant ingredients  Conclusion  Causes skin irritating to the eyes  Not classified as irritating to the respiratory system  Diractory or skin sensitisation	Route of exposure  Eye Skin  hydrocarbons, C6, isoa  Route of exposure  Eye Skin  n-hexane  Route of exposure	kanes, isoalk Result  Not irritating Irritating Ikanes, < 5% Result  Not irritating Not irritating Result	Method  g  Equivalent to OECD 404  in-hexane  Method  g  Equivalent to OECD 405  g  Equivalent to OECD 404  Method	4 h  Exposure time 72 h  4 h	7 days 24; 48; 72 hours  Time point 72 hours 24; 48; 72 hours  Time point	Rabbit Rabbit Species Rabbit Rabbit Species	determination Read-across Read-across  Value determination Read-across  Experimental value Value determination	Single treatme
Route of exposure Result Method Exposure time Time point Species Value determination  Eye Slightly irritating Equivalent to OECD 405  Skin Not irritating EU Method B.4 4 h 24; 48; 72 hours Rabbit Experimental value Inhalation Irritating Irritating Irritating Irritating Irritating Irritating Irritation  Classification is based on the relevant ingredients conclusion  Causes skin irritation.  Not classified as irritating to the eyes  Not classified as irritating to the respiratory system  irratory or skin sensitisation	Route of exposure  Eye Skin  hydrocarbons, C6, isoa  Route of exposure  Eye Skin  n-hexane  Route of exposure  Eye	kanes, isoalk Result  Not irritating Irritating Ikanes, < 5% Result  Not irritating Not irritating Result  Not irritating	Method  g Equivalent to OECD 404  in-hexane Method  g Equivalent to OECD 405 g OECD 404  Method  g Equivalent to OECD 404	4 h  Exposure time 72 h  4 h  Exposure time	7 days 24; 48; 72 hours  Time point 72 hours 24; 48; 72 hours  Time point 72 hours	Rabbit Rabbit  Species Rabbit Rabbit Species Rabbit	determination Read-across Read-across  Value determination Read-across  Experimental valu  Value determination Read-across	Single treatme
OECD 405  Skin Not irritating EU Method B.4 4 h 24; 48; 72 hours Rabbit Experimental value Literature study  Classification is based on the relevant ingredients conclusion  Causes skin irritation.  Not classified as irritating to the eyes  Not classified as irritating to the respiratory system  iratory or skin sensitisation	Route of exposure  Eye Skin  hydrocarbons, C6, isoa  Route of exposure  Eye Skin  n-hexane Route of exposure  Eye Skin	kanes, isoalk Result  Not irritating Irritating Ikanes, < 5% Result  Not irritating Not irritating Result  Not irritating	Method  g Equivalent to OECD 404  in-hexane Method  g Equivalent to OECD 405 g OECD 404  Method  g Equivalent to OECD 404  Gecopy 405 g Equivalent to OECD 405 g Equivalent to OECD 405 Equivalent to OECD 405 Equivalent to	4 h  Exposure time 72 h  4 h  Exposure time	7 days 24; 48; 72 hours  Time point 72 hours 24; 48; 72 hours  Time point 72 hours	Rabbit Rabbit  Species Rabbit Rabbit Species Rabbit	determination Read-across Read-across  Value determination Read-across  Experimental valu  Value determination Read-across	Single treatme
Inhalation Irritating Literature study  Classification is based on the relevant ingredients conclusion  Causes skin irritation.  Not classified as irritating to the eyes  Not classified as irritating to the respiratory system  iratory or skin sensitisation	Route of exposure  Eye Skin  hydrocarbons, C6, isoa Route of exposure  Eye Skin n-hexane Route of exposure  Eye Skin cyclohexane	Result  Not irritating Ikanes, < 5% Result  Not irritating  Result  Not irritating  Result  Not irritating  Result  Irritating  Result  Irritating	Method  g Equivalent to OECD 404  in-hexane Method  g Equivalent to OECD 405 g OECD 404  Method  g Equivalent to OECD 404  Gecopy 404  Method  g Equivalent to OECD 405 Equivalent to OECD 405 Equivalent to OECD 405	4 h  Exposure time 72 h  4 h  Exposure time	7 days 24; 48; 72 hours  e Time point 72 hours 24; 48; 72 hours  e Time point 72 hours 24; 72 hours	Rabbit Rabbit Species Rabbit Species Rabbit Rabbit Species Rabbit	determination Read-across Read-across  Value determination Read-across  Experimental valu  Value determination Read-across  Read-across  Read-across	Remark Remark Remark
Classification is based on the relevant ingredients Conclusion Causes skin irritation. Not classified as irritating to the eyes Not classified as irritating to the respiratory system Siratory or skin sensitisation	Route of exposure  Eye Skin  hydrocarbons, C6, isoa  Route of exposure  Eye Skin  n-hexane Route of exposure  Eye Skin  cyclohexane Route of exposure	Result  Not irritating  Ikanes, < 5%  Result  Not irritating  Result  Not irritating  Result  Not irritating  Result  Result  Result  Result  Result  Result	Method  g Equivalent to OECD 404  on-hexane Method  g Equivalent to OECD 405 g OECD 404  Method  g Equivalent to OECD 404  Method  g Equivalent to OECD 405 Equivalent to OECD 405 Equivalent to OECD 405 Equivalent to OECD 404	4 h  Exposure time 72 h  4 h  Exposure time	7 days 24; 48; 72 hours  Prime point 72 hours 24; 48; 72 hours Time point 72 hours 24; 72 hours 24; 72 hours	Rabbit Rabbit Species Rabbit Species Rabbit Species Rabbit Rabbit	determination Read-across Read-across  Value determination Read-across  Experimental value determination Read-across  Value determination Read-across  Value determination	Remark  Remark  Remark
Conclusion Causes skin irritation. Not classified as irritating to the eyes Not classified as irritating to the respiratory system Diratory or skin sensitisation	Route of exposure  Eye Skin  Hydrocarbons, C6, isoa  Route of exposure  Eye Skin  n-hexane Route of exposure  Eye Skin  cyclohexane Route of exposure  Eye Skin	Result  Not irritating  Ikanes, < 5%  Result  Not irritating  Result  Not irritating  Result  Not irritating  Result  Slightly irritating  Not irritating	Method  g Equivalent to OECD 404  Method  g Equivalent to OECD 405  g Equivalent to OECD 405  g OECD 404  Method  g Equivalent to OECD 405  Equivalent to OECD 405  Equivalent to OECD 404  Method  Method  Method  Method	Exposure time  72 h  4 h  Exposure time  24 h  Exposure time	7 days 24; 48; 72 hours  e Time point 72 hours 24; 48; 72 hours  Time point 72 hours 24; 72 hours  24; 72 hours  Time point 1 hour	Rabbit Rabbit Species Rabbit Species Rabbit Species Rabbit Rabbit Rabbit	determination Read-across Read-across  Value determination Read-across  Experimental value determination Read-across  Read-across  Value determination Experimental value Experimental value Experimental value Experimental value	Remark  Remark  Remark  Remark
	Route of exposure  Eye Skin  Hydrocarbons, C6, isoa  Route of exposure  Eye Skin  In-hexane Route of exposure  Eye Skin  Cyclohexane Route of exposure  Eye Skin  Inhalation	kanes, isoalk Result  Not irritating Ikanes, < 5% Result  Not irritating  Not irritating  Result  Not irritating  Result  Slightly irritating Irritating	Method  g Equivalent to OECD 404  Method  g Equivalent to OECD 405  g OECD 404  Method  g Equivalent to OECD 405  g OECD 404  Method  g Equivalent to OECD 405  Equivalent to OECD 405  Equivalent to OECD 405  Equivalent to OECD 404	Exposure time  72 h  4 h  Exposure time  24 h  Exposure time	7 days 24; 48; 72 hours  e Time point 72 hours 24; 48; 72 hours  Time point 72 hours 24; 72 hours  24; 72 hours  Time point 1 hour	Rabbit Rabbit Species Rabbit Species Rabbit Species Rabbit Rabbit Rabbit	determination Read-across Read-across  Value determination Read-across  Experimental value determination Read-across  Read-across  Value determination Experimental value Experimental value Experimental value Experimental value	Remark  Remark  Remark  Remark
son for revision: 2;3 Publication date: 2009-02-11	Route of exposure  Eye Skin  hydrocarbons, C6, isoa  Route of exposure  Eye Skin  n-hexane  Route of exposure  Eye Skin  cyclohexane  Route of exposure  Eye Skin  conclusion Causes skin irritation. Not classified as irritat	Result  Not irritating  Ikanes, < 5%  Result  Not irritating  Result  Not irritating  Not irritating  Result  Not irritating  Result  Not irritating  Irritating  Result  Not irritating  Irritating  Result  Not irritating  Irritating	Method  g Equivalent to OECD 404  Gn-hexane  Method  g Equivalent to OECD 405  g OECD 404  Method  g Equivalent to OECD 405  Equivalent to OECD 405  Equivalent to OECD 405  Equivalent to OECD 405  Equivalent to OECD 404	Exposure time  72 h  4 h  Exposure time  24 h  Exposure time	7 days 24; 48; 72 hours  e Time point 72 hours 24; 48; 72 hours  Time point 72 hours 24; 72 hours  24; 72 hours  Time point 1 hour	Rabbit Rabbit Species Rabbit Species Rabbit Species Rabbit Rabbit Rabbit	determination Read-across Read-across  Value determination Read-across  Experimental value determination Read-across  Read-across  Value determination Experimental value Experimental value Experimental value Experimental value	Remark  Remark  Remark  Remark

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Rout  Skin  Skin  Skin  Skin  Skin  Skin  Skin  Classific targe  (test)  (val  Inh  (val   Inh  (val  Inh  (val  Inh  (val  Inh  (val  Inh  (val  Inh  (val  (val  Inh  (val	carbons, C6, isoa ite of exposure	lot sensitivesult lot sensitiv	5% n-h izing izing izing vant ing	Method  Equivalent to 429  Method  Equivalent to 429  Method  EU Method EU Method E	Expos  O OECD  Expos  O OECD  Expos	ure time ure time	Obsepoint Obsepoint	ervation time at ervation time at	(male/female)  Species Valu  Mouse (male/female)  Species Valu	d-across  ue determination d-across  ue determination	
Rout  Skin  Skin  Skin  Skin  Skin  Skin  Skin  Classific targe  (test)  (val  Inh  (val   Inh  (val  Inh  (val  Inh  (val  Inh  (val  Inh  (val  Inh  (val  (val  Inh  (val	ane te of exposure F ane assified as sensiti assified as sensiti get organ toxicit pray t) data on the mix carbons, C7, n-ali	lot sensitivesult lot sensitiv	izing izing izing vant ing	Method Equivalent to 429 Method Equivalent to 429 Method Equivalent to 429 Method EU Method E	Expos  OCCD  Expos	ure time	Obso	ervation time at ervation time	Species Valu  Mouse Rea (male/female)  Species Valu	d-across ue determination	
Rout  Skin  Skin  Skin  Skin  Skin  Skin  Skin  Classific targe  (test)  (val  Inh  (val   Inh  (val  Inh  (val  Inh  (val  Inh  (val  Inh  (val  Inh  (val  (val  Inh  (val	ane te of exposure F ane assified as sensiti assified as sensiti get organ toxicit pray t) data on the mix carbons, C7, n-ali	lot sensitivesult lot sensitiv	izing izing izing vant ing	Method  Equivalent to 429  Method  Equivalent to 429  Method  EU Method EU Method E	Expos  OCCD  Expos	ure time	Obso	ervation time	Mouse Rea (male/female)  Species Value	d-across ue determination	
Skin  Interpretation  Skin  Interpretation  In	ane Ite of exposure Finance It	lot sensitivesult lot sensitiv	izing izing vant ing	Equivalent to 429  Method  Equivalent to 429  Method  EU Method E	Expos  OCCD  Expos	ure time	Obso	ervation time	Mouse Rea (male/female)  Species Value	d-across ue determination	
Rout Skin Skin Skin Skin Skin Skin Skin Skin	mexane te of exposure F mexane te of exposure F ment is based on sion assified as sensiti assified as sensiti get organ toxicity pray t) data on the mix carbons, C7, n-al	lesult lot sensit lot sensit the relevating for is	izing izing vant ing	Method Equivalent to 429 Method EU Method E	Expos  Expos		poin	ervation time	(male/female)  Species  Value	ue determination	Remark
Rout Skin Skin Skin Skin Skin Skin Skin Skin	ment is based on sion assified as sensitinget organ toxicity pray t) data on the mix carbons, C7, n-all	lot sensition sensition to sensition the relevant sensition for sensition for sensition for its sensit	izing vant ing	Equivalent to 429  Method  EU Method 6	O OECD Expos		poin	nt			Remark
Skin  Skin  Rout  Skin	ment is based on sion assified as sensitinget organ toxicity pray t) data on the mix carbons, C7, n-all	lot sensition sensition to sensition the relevant sensition for sensition for sensition for its sensit	izing vant ing	Equivalent to 429  Method  EU Method 6	O OECD Expos		poin	nt			Remark
yclohuk Rout Rout Skin Skin Skin Skin Skin Skin Skin Skin	ment is based on sion assified as sensiti assified as sensiti get organ toxicity pray t) data on the mix carbons, C7, n-all	desult  Iot sensit  the relevation of the releva	izing vant ing	Method  EU Method B	Expos	ure time	Oha		Mouse Rea	d-across	
Rout  Skin  Skin  Idea classification classificatio	ment is based on sion assified as sensiti assified as sensiti get organ toxicity pray t) data on the mix carbons, C7, n-all	the relevant to the relevant t	vant ing	EU Method E		ure time	Observation time		Mouse Read-across		
Skin  Skin  udgen nclusi lot cla lot cla lot cla ic targ (test) ydroc  Rol  Inh (va	ment is based on sion assified as sensiti assified as sensiti get organ toxicit pray t) data on the mix carbons, C7, n-all	the relevant to the relevant t	vant ing	EU Method E		ure time	Oha				
udgen nclusi lot cla lot cla ic tarc one Sp (test) ydroc Roi lnh (va lnh	ment is based on sion assified as sensiti assified as sensiti get organ toxicit pray t) data on the mix carbons, C7, n-all	the relevent the relevent to the relevent to the relevent to the relevent to the relevant to t	vant ing		3.6		poin		Species Valu	ue determination	Remark
nclusi nclusi lot cla	sion assified as sensiti assified as sensiti get organ toxicit pray t) data on the mix carbons, C7, n-all	zing for s zing for i y ture avai	kin	gredients				48 hours		erimental value	
nclusi nclusi lot cla	sion assified as sensiti assified as sensiti get organ toxicit pray t) data on the mix carbons, C7, n-all	zing for s zing for i y ture avai	kin	greaterits					(male/female)		
ic targone Sport (test) Inh (va	assified as sensiti assified as sensiti get organ toxicit pray t)data on the mix carbons, C7, n-all	zing for i									
ic targone Spone S	assified as sensiti get organ toxicit <u>pray</u> t)data on the mix <u>carbons, C7, n-all</u>	zing for i									
one Sport (test) Note: Roll Inh (va	get organ toxicit pray t)data on the mix carbons, C7, n-all	<b>y</b> ture avai	nnalatio								
Rollinh	<u>pray</u> t)data on the mix carbons, C7, n-all	ture avai		on							
Rollinh	<u>pray</u> t)data on the mix carbons, C7, n-all	ture avai									
Roo Inh (va	t)data on the mix carbons, C7, n-all										
Roo Inh (va	t)data on the mix carbons, C7, n-all										
Ro Inh (va	, carbons, C7, n-all		lahle								
Inh (va		·									
Inh (va Inh	oute of exposure				L			<b>1</b>		1	
(va Inh		Parame	ter M	1ethod	Value	Organ		Effect	Exposure time	Species	Value
(va Inh											determinatio
Inh	halation	NOAEC		ubchronic	12470 mg/m <sup>3</sup>		nervous	No effect	16 weeks (daily)	Rat (male)	Read-across
	apours)	NICATI		oxicity test	air	system		Na ad iii	26	Det	Dead :
(va	halation	NOAEL		quivalent to	12350 mg/m <sup>3</sup>			No adverse	26 weeks (6h/day, 5		Read-across
Land-	apours)	LOAF		ECD 413	air	ir Cantani		systemic effect		(male/female)	Dood occess
	halation	LOAEL		quivalent to ECD 413	Toou mg/m³ a		nervous	CNS depression	26 weeks (6h/day, 5 days/week)		Read-across
	apours)	lors				system			uays/week)	(male/female)	
	carbons, C6, isoa				Value	Organ		Effect	Evnocure time	Charios	Value
KO	oute of exposure	rarame	tei IV	lethod	value	Organ		Effect	Exposure time	Species	value determinatio
Do	ermal										Data waiving
-	halation	NOAEC	г	quivalent to	31680 mg/m <sup>3</sup>	Control	nervous	No effect	13 weeks (6h/day, 5	Rat	Read-across
١,		NOAEC	_	<u>-</u>	I .		nervous	NO EIIECL		(male/female)	neau-actoss
	apours)		Ρ	ECD 424	air	system			days/week)	(maie/remaie)	
-hexa	oute of exposure	Daramo	ter N	1ethod	Value	Organ		Effect	Evnosure time	Species	Value
KU	oute of exposure	r at affie	iei IV	ietrioù	value	Organ		LITEUL	Exposure time	Species	determinatio
Ora	ral (stomach	NOAEL	Sı	ubchronic	567 mg/kg			No effect	13 weeks (5	Rat (male)	Experimental
	be)			oxicity test	bw/day - 1135	5		Sirect	days/week)	Tac (male)	value
	•			,	mg/kg bw/day						
Ora	ral (stomach	LOAEL	Sı	ubchronic	3956 mg/kg		nervous	neurotoxic	17 weeks (5	Rat (male)	Experimental
	be)			oxicity test	bw/day	system		effects	days/week)		value
-	ermal										Data waiving
	halation	LOAEC	Sı	ubchronic	3000 ppm	Central	nervous	Impairment of	16 weeks (daily)	Rat (male)	Experimental
(va	apours)		to	oxicity test		system		the nervous			value
								system			
	halation				STOT SE cat.3			Drowsiness,			Literature stu
	apours)						1	dizziness			
	<u>nexane</u>				h		1	<b>1</b>		To -	
Ro	oute of exposure	Parame	ter IV	lethod	Value	Organ		Effect	Exposure time	Species	Value
											determinatio
Ora										<del> </del>	Data waiving
-	ermal				L					<del></del>	Data waiving
	halation	NOAEC		PA OPPTS	7000 ppm			No effect	13 weeks (6h/day, 5		Experimental
	apours)	L		70.3465			7		days/week)	(male/female)	value
	fication is based o	n the rel	evant i	ngredients							
<u>nclusi</u>											
/lay ca	ause drowsiness	or dizzine	ess.								
n for r							\				
-	revision: 2;3							P	ublication date: 2009-0	)2-11	
	revision: 2;3								ublication date: 2009-0 ate of revision: 2017-0		

		S	ilic	one	Spr	ay				
Not classified for subchronic to	kicity				<u> </u>					
utagenicity (in vitro)										
ilicone Spray  No (test)data on the mixture av	ailable									
hydrocarbons, C7, n-alkanes, is		ryclics								
Result	Metho		h	est substi	rate		Effect		Value	determination
Negative with metabolic activation, negative without	Equival	ent to OECD 473		Rat liver ce			No effect		Read-a	across
metabolic activation  Negative with metabolic activation, negative withou		ent to OECD 471	E	Bacteria (S	.typhimur	ium)	No effect		Read-a	across
metabolic activation  Negative with metabolic  activation, negative withou		OECD 476		Human lyn	nphocytes		No effect		Read-a	across
metabolic activation				_						
hydrocarbons, C6, isoalkanes, <	-			F 4 l 4.			F.C		Malara	.1.4
Result	Metho			est substi		(0110)	Effect		_	determination
Negative with metabolic activation, negative withou metabolic activation		ent to OECD 473					No effect		Read-a	across
Negative with metabolic activation, negative without metabolic activation	e without			Bacteria (S.typhimurium) No		No effect		Read-across		
Negative with metabolic activation, negative withou	gative with metabolic Equivalent to OECD 476			Chinese hamster ovary (CHO) No e			No effect Read		Read-across	
n-hexane					-			_	1	
Result	Metho	<b>1</b>	1	Test substi	rate		Effect		Value	determination
Negative	OECD 476			Mouse (lyr		5178Y	No effect		_	mental value
Negative				cells) Bacteria (S	.tvphimur	ium)	No effect		Experi	mental value
cyclohexane	Equitor				теура.	,	.10 0.11000		-Aperi	e.itai vaide
Result	Metho	<u> </u>	-	Test substi	rate		Effect		Value	determination
Negative with metabolic activation, negative withour metabolic activation	Equival	ent to OECD 471		Bacteria (S.typhimurium)		No effect		_	mental value	
Negative with metabolic activation, negative withou metabolic activation		ent to OECD 476		Mouse (lyr cells)	mphoma L	5178Y	No effect		Experi	mental value
utagenicity (in vivo)										
ilicone Spray No (test)data on the mixture av										
hydrocarbons, C6, isoalkanes, < Result		Method	Evnoc	ure time	Н	est substi	rato	Organ		Value determinat
Negative		Equivalent to OECD		(6h/day)		at (male/		Bone marrow		Experimental valu
		475	5 uays	(Oll/day)		at (IIIaie)	iemaie)	Bone marrow		Experimental valu
n-hexane								1-		<b>.</b>
Result		Method		ure time		est substi		Organ		Value determinat
Negative			8 wee days/\	ks (6h/day week)	, 5 I	Nouse (ma	ale)			Experimental valu
cyclohexane Docult		Mothod	Evnoc	uro timo	h	oct cubeti	rata	Organ		Value determinat
Result		Method		ure time		est substi at (male/		Organ Bone marrow		Value determinat Experimental valu
Negative		Equivalent to OECD 475	5 uays	(6h/day)		lat (male/	remaie)	Bone marrow		experimental valu
Judgement is based on the rele Conclusion Not classified for mutagenic or rcinogenicity										
ilicone Spray No (test)data on the mixture av	ailable			1						
						1/				

Reason for revision: 2;3 Publication date: 2009-02-11
Date of revision: 2017-03-17

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation								Data waiving
Dermal								Data waiving
Oral								Data waiving
rocarbons, C	6, isoalkanes, <	< 5% n-hexane						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation (vapours)	LOAEC	Equivalent to OECD 451	9018 ppm	104 weeks (6h/day, 5 days/week)	Mouse (female)	Carcinogenicity	Liver	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 451	9016 ppm	104 weeks (6h/day, 5 days/week)	Rat (male/female)	No carcinogenic effect		Experimental value
<u>exane</u>							_	
Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinatio
Inhalation (vapours)	NOAEC	Equivalent to OECD 451	3000 ppm	104 weeks (6h/day, 5 days/week)	Mouse (female)	No carcinogenic effect		Read-across
Inhalation (vapours)	LOAEC	Equivalent to OECD 451	9018 ppm	104 weeks (6h/day, 5 days/week)	Mouse (female)	Tumor formation	Liver	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 451	9018 ppm	104 weeks (6h/day, 5 days/week)	Mouse (male)	No carcinogenic effect		Read-across

#### Conclusion

Not classified for carcinogenicity

### Reproductive toxicity

#### Silicone Spray

No (test)data on the mixture available

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

	Parameter	Method	Value	Exposure time	Species	Effect	- 3 -	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	31680 mg/m³ air	10 days (6h/day)	Mouse	No effect		Read-across
Maternal toxicity	NOAEL	Equivalent to OECD 414	10560 mg/m³ air	10 days (6h/day)	Rat (female)	No effect		Read-across
	LOAEL	Equivalent to OECD 414	31680 mg/m³ air	10 days (6h/day)	, ,	Lung tissue affection/degen eration	Lungs	Read-across
Effects on fertility	NOAEL (P/F1)	Equivalent to OECD 416	31680 mg/m³ air		Rat (male/female)	No effect		Read-across

hydrocarbons, C6, isoalkanes, < 5% n-hexane

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	3000 ppm	10 days (6h/day)	Mouse	No effect		Read-across
	LOAEC	Equivalent to OECD 414	9000 ppm	10 days (6h/day)	Mouse	Minor skeletal variations	Skeleton	Read-across
Maternal toxicity	NOAEC	Equivalent to OECD 414	900 ppm	10 days (6h/day)	Rat (female)	No effect		Read-across
	LOAEC	Equivalent to OECD 414	3000 ppm	10 days (6h/day)	Rat (female)	Lung tissue affection/degen eration	Lungs	Read-across
Effects on fertility	NOAEC	Equivalent to	9000 ppm		Rat (male/female)	No effect		Read-across

n-hexane

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	9000 ppm	10 days (gestation, 6h/day)	Rat	No effect		Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	3000 ppm	10 days (gestation, 6h/day)	Rat	No effect		Experimental value
	LOAEL	Equivalent to OECD 414	9000 ppm	10 days (gestation, 6h/day)	Rat	Weight gain		Experimental value
Effects on fertility	NOAEC	Equivalent to OECD 416	9000 ppm	≥ 13 weeks (6h/day, 5 days/week)	Rat (male/female)	No effect		Experimental value

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cyclohexane

<u>cionexane</u>							_	_
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	7000 ppm	10 days (6h/day)	Rat	No effect		Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	2000 ppm	10 days (6h/day)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEC	Equivalent to OECD 416	7000 ppm	> 11 weeks (6h/day, 5 days/week)	Rat (male/female)	No effect		Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for reprotoxic or developmental toxicity

#### Toxicity other effects

Silicone Spray

No (test)data on the mixture available

hydrocarbons, C6, isoalkanes, < 5% n-hexane

, -		antance, som next						
	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
								determination
	NOAEC	Equivalent to OECD	9000 ppm	Central nervous	Overall effects	13 weeks (6h/day,	Rat (male/female)	Experimental value
		424		system		5 days/week)		

cyclohexane

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
							determination
NOAEC	Other	2000 ppm		neurotoxic effects	6 h	Rat (male)	Experimental value
LOAEC	Other	7000 ppm		neurotoxic effects	6 h	Rat (male)	Experimental value

Chronic effects from short and long-term exposure

Silicone Spray

No effects known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Silicone Spray

No (test)data on the mixture available

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

yurocarbons, C7, 11-aikanes, 1	Juai	Karres, cyclics							
		Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes		LL50		> 13.4 mg/l WAF	96 h		Semi-static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea		EL50	OECD 202	3.0 mg/l WAF	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aqu plants	atic	EL50	OECD 201	<mark>29 m</mark> g/l WAF	72 h	Pseudokirchnerie Ila subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish		NOELR		1.534 mg/l	28	Oncorhynchus mykiss		Fresh water	QSAR; Nominal concentration
Long-term toxicity aquatic crustacea		NOEC		<mark>0.17</mark> mg/l <mark>WAF</mark>	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across; GLP
		EL50	OECD 211	1.6 mg/l WAF	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across
Toxicity aquatic micro- organisms		EL50		26.81 mg/l	48 h	Tetrahymena pyriformis		Fresh water	QSAR; Growth rate

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	Parameter	Method	Value	)	Duration	Species	Test design	Fresh/salt water	Value determ
Acute toxicity fishes	LL50		18.27	mg/l	96 h	Oncorhynchus mykiss		Fresh water	QSAR; Nomina concentration
Acute toxicity crustacea	EL50		31.9	mg/l	48 h	Daphnia magna		Fresh water	QSAR; Nomina
Toxicity algae and other aqua plants	tic EL50	OECD 201	55 m	g/l	72 h	Pseudokirchnerie Ila subcapitata	Static system		Read-across; (
Long-term toxicity fish	NOELR		4.089	mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR; Nomina concentration
Long-term toxicity aquatic crustacea	NOELR		7.138	mg/l	21 day(s)	Daphnia magna			QSAR; Nomina concentration
- <u>hexane</u>									
	Parameter	Method	Value	)	Duration	Species	Test design	Fresh/salt water	Value determ
Acute toxicity fishes	LL50		13.3 ו	mg/l	96 h	Oncorhynchus mykiss		Fresh water	Read-across; Nominal concentration
Acute toxicity crustacea	EL50		23.22	mg/l	48 h	Daphnia magna		Fresh water	Read-across; Nominal
Toxicity algae and other aqua	tic EL50		9.902	mg/l	72 h	Pseudokirchnerie lla subcapitata		Fresh water	concentration Read-across; G rate
Long-term toxicity fish	NOELR		2.976	mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	Read-across; Nominal concentration
Long-term toxicity aquatic crustacea	NOELR		5.195	mg/l	21 day(s)	Daphnia magna		Fresh water	Read-across; Nominal concentration
vclohexane					-			1	concentration
<u>ycronexarie</u>	Parameter	Method	Value	;	Duration	Species	Test design	Fresh/salt water	Value determ
Acute toxicity fishes	LC50	Equivalent to OECD 203	4.53 (	mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental Measured concentration
Acute toxicity crustacea	EC50	Equivalent to OECD 202	0.9 m	ıg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental Locomotor eff
Toxicity algae and other aquaplants	tic ErC50	Equivalent to OECD 201	9.317	mg/l	72 h	Pseudokirchnerie Ila subcapitata			Experimental GLP
	EC50	OECD 201	9.317	mg/l	72 h	Pseudokirchnerie Ila subcapitata			Experimental Growth rate
Long-term toxicity fish									Data waiving
Long-term toxicity aquatic crustacea									Data waiving
Toxicity aquatic micro- organisms	IC50		29 m	g/l	15 h	Aerobic micro- organisms			Experimental Nominal concentration
ssification is based on the rele nclusion oxic to aquatic life with long la 2. Persistence and deg ydrocarbons, C7, n-alkanes, is Biodegradation water	sting effects.								
Method		Value			Dur	ation	Ma	llue determina	ation
OECD 301F: Manometric Re	snirometry Tes					day(s)		perimental val	
ydrocarbons, C6, isoalkanes, <		t 50 70, <b>GL</b> i			1200	2d y (3)	JEX.	permientai vai	iuc .
Biodegradation water									
Method		Value			Dur	ation	Va	lue determina	ation
OECD 301F: Manometric Re	espirometry Tes	t 81 %; GLP			28 0	day(s)	Re	ad-across	
-hexane		<b>!</b>			· ·				
Biodegradation water									
Method		Value			Dur	ation	Va	lue determina	ation
OECD 301F: Manometric Re	espirometry Tes	t 98 %; GLP			28 (	day(s)	Re	ad-across	

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#### Silicone Spray **Biodegradation water** Method Value Duration Value determination OECD 301F: Manometric Respirometry Test 77 %; GLP 28 day(s) Experimental value Half-life soil (t1/2 soil) Method Value Value determination degradation/mineralisation 28 day(s) - 180 day(s) Literature study Conclusion Contains non readily biodegradable component(s) 12.3. Bioaccumulative potential Silicone Spray Log Kow Value Temperature Value determination Method Not applicable (mixture) hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Log Kow Temperature Method Remark Value Value determination > 3 hydrocarbons, C6, isoalkanes, < 5% n-hexane **BCF** fishes **Parameter** Method Value Value determination Duration Species 501.187 Pimephales promelas OSAR BCF Log Kow Method Remark Value Temperature Value determination Equivalent to OECD 107 3.6 20 °C Read-across n-hexane **BCF fishes** Parameter Method Value Duration Species Value determination BCF Other 501.187 Pimephales promelas Log Kow Value determination Value Method Remark Temperature Equivalent to OECD 107 4 20°C Experimental value cyclohexane **BCF** fishes Value determination **Parameter** Method Value Duration Species Cyprinus carpio BCF OECD 305 31 - 129 8 week(s) Literature study Log Kow Method Value Value determination Remark Temperature 3.44 Other 25 °C Experimental value Conclusion Contains bioaccumulative component(s) 12.4. Mobility in soil hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Percent distribution Value determination Method Fraction air Fraction biota Fraction Fraction soil Fraction water sediment Mackay level III 0.55 % 1.4 % 96 % 0 % 1.8 % Calculated value hydrocarbons, C6, isoalkanes, < 5% n-hexane (log) Koc **Parameter** Method Value Value determination 3.34 QSAR log Koc n-hexane (log) Koc Value Value determination Parameter Method 3.34 OSAR log Koc Volatility (Henry's Law constant H) Value Method Temperature Remark Value determination 1.8 atm m³/mol 25 °C Calculated value cyclohexane (log) Koc Value determination **Parameter** Method Value Other 2.89 QSAR Reason for revision: 2;3 Publication date: 2009-02-11 Date of revision: 2017-03-17

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#### Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

#### 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Other adverse effects

Silicone Spray

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

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

Ozone-depleting potential (ODP)

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

cyclohexane

**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

#### **European Union**

Hazardous waste according to Directive 2008/98/EC.

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

13 02 08\* (waste engine, gear and lubricating oils: other engine, gear and lubricating oils).

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

16 05 04\* (gases in pressure containers and discarded chemicals: gases in pressure containers (including halons) containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

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 drains or the environment.

#### 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 1950 14.2. UN proper shipping name Aerosols Proper shipping name 14.3. Transport hazard class(es) Hazard identification number Class Classification code 5F 14.4. Packing group Packing group Labels 2.1 14.5. Environmental hazards Environmentally hazardous substance mark yes 14.6. Special precautions for user Special provisions 190 327 Special provisions 344 Special provisions 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 1950 UN number 14.2. UN proper shipping name Aerosols Proper shipping name 14.3. Transport hazard class(es) Reason for revision: 2:3 Publication date: 2009-02-11 Date of revision: 2017-03-17

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Si	licone Spray
Hazard identification number	23
Class	2
Classification code	5F
4. Packing group	
Packing group	
Labels	2.1
5. Environmental hazards	
Environmentally hazardous substance mark	yes
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 f
	liquids. A package shall not weigh more than 30 kg. (gross mass)
d waterways (ADN)	
UN number	1950
2. UN proper shipping name	1200
Proper shipping name	Aerosols
3. Transport hazard class(es)	y ici osois
Class	2
Classification code	5F
4. Packing group	F.
Packing group	
Labels	2.1
5. Environmental hazards	T-S
Environmentally hazardous substance mark	yes
6. Special precautions for user	li eo
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging f liquids. A package shall not weigh more than 30 kg. (gross mass)
IMDG/IMSBC)	
1. UN number	
	1050
UN number	1950
2. UN proper shipping name	Acrosols
Proper shipping name	Aerosols
3. Transport hazard class(es) Class	2.1
4. Packing group	K-1
Packing group Labels	2.1
	4.1
5. Environmental hazards	lp.
Marine pollutant	
Environmentally hazardous substance mark	yes
6. Special precautions for user Special provisions	63
Special provisions Special provisions	190
	277
Special provisions	
Special provisions	327
Special provisions	344
Special provisions	381
Special provisions Limited quantities	959
HIMPEOG GUADTITIOS	Combination packagings: not more than 1 liter per inner packaging f

Air (ICAO-TI/IATA-DGR)

14.1. UN number

UN number

1950

14.2. UN proper shipping name
Proper shipping name
Aerosols, flammable

14.3. Transport hazard class(es)

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<u> </u>			
Class			2.1
14.4. Packing group			
Packing group			
Labels			2.1
14.5. Environmental ha	zards		
Environmentally ha	Environmentally hazardous substance mark		yes
14.6. Special precautio	ns for <mark>user</mark>		
Special provisions			A145
Special provisions			A167
Special provisions			A802
limited quantities:	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	Remark		
100 %				

#### 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.

and use of certain da	ngerou	s substances, mixtures and article	es.	
		Designation of the substance, of the substances or of the mixture	group of	Conditions of restriction
hydrocarbons, C7, n-alkanes, isoalk cyclics     hydrocarbons, C6, isoalkanes, < 5% hexane     n-hexane     cyclohexane		Liquid substances or mixtures which regarded as dangerous in accordance Directive 1999/45/EC or are fulfilling criteria for any of the following hazar or categories set out in Annex I to Re (EC) No 1272/2008:  (a) hazard classes 2.1 to 2.4, 2.6 and 1 types A and B, 2.9, 2.10, 2.12, 2.13 ca and 2, 2.14 categories 1 and 2, 2.15 t;  (b) hazard classes 3.1 to 3.6, 3.7 adve effects on sexual function and fertilit development, 3.8 effects other than effects, 3.9 and 3.10;  (c) hazard class 4.1;  (d) hazard class 5.1.	e with the rd classes igulation 2.7, 2.8 ategories 1 ypes A to erse y or on narcotic	1. Shall not be used in:  — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,  — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:  — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).5. Without prejudice to the implementation of 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
hydrocarbons, C7, n-alkanes, isoalk cyclics     hydrocarbons, C6, isoalkanes, < 5% hexane     n-hexane     cyclohexane	ĺ	Substances classified as flammable gacategory 1 or 2, flammable liquids ca 1, 2 or 3, flammable solids category 1 substances and mixtures which, in co with water, emit flammable gases, ca 2 or 3, pyrophoric liquids category 1 pyrophoric solids category 1, regardle whether they appear in Part 3 of Ann that Regulation or not.	tegories L or 2, untact stegory 1, or ess of nex 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,  — horns for parties,  — decorative flakes and foams,  — artificial cobwebs,  — stink bombs.2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:  "For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
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		JIIIC	conc spray
yclohexane	Cyclohex	ane	1. Shall not be placed on the market for the first time after 27 June 2010, for supply to general public, as a constituent of neoprene-based contact adhesives in concentrations equal to or greater than 0,1 % by weight in package sizes greater than 350 g.2. Neoprei based contact adhesives containing cyclohexane and not conforming to paragraph 1 sh not be placed on the market for supply to the general public after 27 December 2010.3 Without prejudice to other Community legislation concerning the classification, package and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that neoprene-based contact adhesives containing cyclohexane in concentrative equal to or greater than 0,1 % by weight that are placed on the market for supply to the general public after 27 December 2010 are visibly, legibly and indelibly marked as follow "— This product is not to be used under conditions of poor ventilation.  — This product is not to be used for carpet laying."
National legislation Belgiun Silicone Spray No data available	<u>1</u>		
National legislation The Ne	therlands		
Silicone Spray			
Waste identification (t	he LWCA (t	he Netherlands): KGA	category 06
Waterbezwaarlijkheid	A (2)		
n-hexane	1 ( /		
SZW - Lijst van voor de voortplanting giftige si (vruchtbaarheid)		n; 2; Suspected of dam	naging fertility.
National legislation France Silicone Spray No data available			
n-hexane Catégorie toxique pou reproduction	r la n-Hexan	e; R2	
National legislation German	<u>1y</u>		
Silicone Spray WGK	2. Classi	fication water polluting	ng based on the components in compliance with Verwaltungsvorschrift wassergefährder
WGK		/wVwS) of 27 July 2005	
hydrocarbons, C7, n-alka		·	
TA-Luft	5.2.5; 1		
hydrocarbons, C6, isoalk	anes, < 5% n-he	<u>rane</u>	
TA-Luft	5.2.5; 1		
<u>n-hexane</u>			
TA-Luft	5.2.5; 1		
TRGS900 - Risiko der			schädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen
Fruchtschädigung	Grenzwe	ertes nicht befürchtet z	zu werden
cyclohexane	F 2 F .		
TA-Luft	5.2.5; 1		
National legislation United	Kingdom		
Silicone Spray  No data available			
Other relevant data			
Other relevant data			
Silicone Spray			
No data available			
No data available			
No data available  n-hexane  Skin absorption	la 11av-	ne; Skin; Danger of cuta	angus absorbtion

#### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

## SECTION 16: Other information

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 vanour				

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

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H373 May cause damage to organs (central nervous system) through prolonged or repeated exposure if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

(\*) INTERNAL CLASSIFICATION BY BIG

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

DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

LC50 Lethal Concentration 50 %

LD50 Lethal Dose 50 %

NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

M-factor

cyclohexane 1 Acute ECHA

Specific concentration limits CLP

n-hexane C≥5% STOT RE 2; H373 CLP Annex VI (ATP 0)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet has been elaborated for use within the European Union, Switzerland, Iceland, Norway and Lichtenstein. It may be consulted in other countries, where local legislation with regards to the set-up of safety data sheets will take precedence. It is your obligation to verify and apply such local legislation. 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.

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