

SAFETY DATA SHEET

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

Contact Spray Adhesive

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

1.1. Product identifier

Product name : Contact Spray Adhesive
Registration number REACH : Not applicable (mixture)

Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

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

Manufacturer of the product

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

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Class	Category	Hazard statements
Aerosol	category 1	H222: Extremely flammable aerosol.
Aerosol	categ <mark>ory 1</mark>	H229: Pressurised container: May burst if heated.
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: isopentane.

Signal word H-statements

> H222 H229 H336

Danger

Extremely flammable aerosol.

Pressurised container: May burst if heated.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

H411 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

http://www.big.be

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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.

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

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.

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

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

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	Conc. (C)	Classification according to CLP	Note	Remark
acetone 01-2119471330-49	67-64-1 200-662-2	1% <c<10%< th=""><th>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</th><th>(1)(2)(10)</th><th>Constituent</th></c<10%<>	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
cyclohexane 01-2119463273-41	110-82-7 203-806-2	1% <c<10%< td=""><td>Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td><td>(1)(2)(10)</td><td>Constituent</td></c<10%<>	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
isopentane 01-2119475602-38	78-78-4 201-142-8	C>25%	Flam. Liq. 1; H224 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(2)(10)	Constituent
dimethyl ether 01-2119472128-37	115-10-6 204-065-8	C>1%	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
pentane 01-2119459286-30	109-66-0 203-692-4	0.1% <c<3%< td=""><td>Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411</td><td>(1)(2)(10)</td><td>Constituent</td></c<3%<>	Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(2)(10)	Constituent

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fr<mark>esh air. Respiratory problems: consult a doctor/medical service.</mark>

After skin contact

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

After eye contact:

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:

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

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

4.2.1 Acute symptoms

After inhalation:

Headache. Coughing. Dry/sore throat. Respiratory difficulties. Narcosis. Central nervous system depression.

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⁽²⁾ Substance with a Community workplace exposure limit

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

After skin contact:

Red skin. ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin.

After eye contact:

Redness of the eye tissue.

After ingestion:

Headache. Abdominal pain. Diarrhoea. Vomiting. Disturbances of consciousness.

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:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher.

5.1.2 Unsuitable extinguishing media:

Small fire: Quick-acting CO2 extinguisher, Water (water can be used to control jet flame), Foam.

Major fire: Water (water can be used to control jet flame), Foam.

5.2. Special hazards arising from the substance or mixture

. Upon combustion: forma<mark>tion of CO, CO2 and small quantities of</mark> phosphorus oxides. 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. 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. 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. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Avoid prolonged and repeated contact with skin.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Keep container in a well-ventilated place. Fireproof storeroom. Protect against frost. Keep out of direct sunlight. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources, ignition sources.

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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.

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Acetone	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	500 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1210 mg/m³
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/m³
Dimethylether	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1000 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1920 mg/m³
Isopentane	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1000 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	3000 mg/m³
Pentane	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1000 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	3000 mg/m³
Relaium		

Belgium		<u>.</u>
Acétone	Time-weighted average exposure limit 8 h	500 ppm
	Time-weighted average exposure limit 8 h	1210 mg/m³
	Short time value	1000 ppm
	Short time value	2420 mg/m³
Cyclohexane	Time-weighted average exposure limit 8 h	100 ppm
	Time-weighted average exposure limit 8 h	350 mg/m³
Oxyde de diméthyle	Time-weighted average exposure limit 8 h	1000 ppm
	Time-weighted average exposure limit 8 h	1920 mg/m³
Pentane, tous isomères	Time-weighted average exposure limit 8 h	600 ppm
	Time-weighted average exposure limit 8 h	1800 mg/m³
	Short time value	750 ppm
	Short time value	2250 mg/m ³

The Netherlands

Aceton	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	501 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	1210 mg/m³
	Short time value (Public occupational exposure limit value)	1002 ppm
	Short time value (Public occupational exposure limit value)	2420 mg/m³
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/m³
	Short time value (Public occupational exposure limit value)	400 ppm
	Short time value (Public occupational exposure limit value)	1400 mg/m³
Dimethylether	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	496 ppm

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Dimethylether		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	950 mg/m³
		Short time value (Public occupational exposure limit value)	783 ppm
		Short time value (Public occupational exposure limit value)	1500 mg/m ³
sopentaan		Time-weighted average exposure limit 8 h (Public occupational exposure	
opentuun		limit value)	осо рртт
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	1800 mg/m³
-Pentaan		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	600 ppm
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	1800 mg/m³
ance			
cétone		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire	500 ppm
cetone		contraignante)	эоо рртт
		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	1210 mg/m ³
		Short time value (VRC: Valeur réglementaire contraignante)	1000 ppm
		Short time value (VRC: Valeur réglementaire contraignante)	2420 mg/m ³
volohovana			<u>.</u>
/clohexane		contraignante)	200 ppm
		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	700 mg/m³
		Short time value (VL: Valeur non réglementaire indicative)	375 ppm
		Short time value (VL: Valeur non réglementaire indicative)	1300 mg/m³
opentane		Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1000 ppm
		Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	3000 mg/m³
-Pentane		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	1000 ppm
		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	3000 mg/m³
xyde de diméthyle		Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire	1000 ppm
		indicative) Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1920 mg/m³
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ermany		L	I
ceton		Time-weighted average exposure limit 8 h (TRGS 900)	500 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	1200 mg/m³
yclohexan		Time-weighted average exposure limit 8 h (TRGS 900)	200 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	700 mg/m³
methylether		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
•		Time-weighted average exposure limit 8 h (TRGS 900)	1900 mg/m³
lethylbutan		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
.cyibataii		Time-weighted average exposure limit 8 h (TRGS 900)	3000 ppm 3000 mg/m ³
antan		· · · · · · · · · · · · · · · · · · ·	<u> </u>
entan		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	3000 mg/m ³
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cetone		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	500 ppm
		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1210 mg/m³
		Short time value (Workplace exposure limit (EH40/2005))	1500 ppm
		Short time value (Workplace exposure limit (EH40/2005))	3620 mg/m³
yclohexane		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	100 ppm
			350 mg/m³
		Short time value (Workplace exposure limit (EH40/2005))	300 ppm
		Short time value (Workplace exposure limit (EH40/2005))	1050 mg/m ³
imethyl ether		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	400 ppm
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Dimethyl ether							
				e-weighted average exposi 40/2005))	ure limit 8 h (Workpl	ace exposure limit	766 mg/m³
			Sho	rt time value (Workplace e	xposure limit (EH40/	(2005))	500 ppm
			Sho	rt time value (Workplace e	xposure limit (EH40/	2005))	958 mg/m³
Isopentane				e-weighted average exposi 40/2005))	600 ppm		
				e-weighted average exposi 40/2005))	1800 mg/m³		
Pentane				e-weighted average exposi 40/2005))	ure limit 8 h (Workpl	ace exposure limit	600 ppm
				e-weighted average exposi 40/2005))	ure limit 8 h (Workpl	ace exposure limit	1800 mg/m³
usa (TLV-Acgih)							
Acetone				e-weighted average expos		dopted Value)	250 ppm
			_	rt time value (TLV - Adopte			500 ppm
Cyclohexane				e-weighted average expos			100 ppm
Pentane, all isomers			Tim	e-weighted average expos	ure limit 8 h (TLV - A	dopted Value)	1000 ppm
b) National biological lim	nit values						
If limit values are applical	ble and available	e these will be listed bel	low.				
Germany							
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Hydrolyse))	·	mehreren vorangegar expositionsende, bzw.	nger	en schichten		Prüfung gesundheit Arbeitsstoffe der DI	sschädlicher
USA (BEI-ACGIH)							
Acetone (Acetone)		Urine: end of shift			25 mg/L		
2 Sampling methods			Н		- <i>G</i>		
Product name				Test	Number		
Acetone (ketones 1)				NIOSH	1300		
Acetone (ketones I)			_	NIOSH	2555		
Acetone (organic and ino	rganic gasos by	Extractive ETIP)		NIOSH	3800		
Acetone (Volatile Organic		LAU active 1 Tilly		NIOSH	2549	_	
ACETONE and METHYL E Acetone	I I I I KE I ONE II	i urine	_	NIOSH OSHA	8319		
Acetone	DD2C+- 42	CC)			69		
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Cyclohexane			_	OSHA	7		
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Cyclohexane N-PENTANE (HYDROCAR n-Pentane (Volatile Orga Pentane 3 Applicable limit values If limit values are applical 4 DNEL/PNEC values DNEL/DMEL - Workers acetone Effect level (DNEL/DMI DNEL cyclohexane Effect level (DNEL/DMI DNEL	BONS, BP 36 TC nic compounds when using the ble and available and compounds EL) Ty LC Ac LC Ac LC Ac LC	e substance or mixture e these will be listed bel prope ong-term systemic effect cute local effects inhalating-term systemic effect cute systemic effect cute systemic effects inhalating-term local effects inhalaticute local effects inhal	as in low.	NIOSH NIOSH OSHA OSHA ntended halation ermal halation tion	Value 1210 mg/m³ 2420 mg/m³ 186 mg/kg bw/day Value 700 mg/m³ 700 mg/m³ 700 mg/m³ 700 mg/m³	Remark	
Cyclohexane N-PENTANE (HYDROCAR n-Pentane (Volatile Orga Pentane 3 Applicable limit values If limit values are applical 4 DNEL/PNEC values DNEL/DMEL - Workers acetone Effect level (DNEL/DMI DNEL cyclohexane Effect level (DNEL/DMI DNEL DNEL	BONS, BP 36 TC nic compounds when using the ble and available and avail	e substance or mixture e these will be listed bel prope ong-term systemic effect cute local effects inhalating-term systemic effect cute systemic effects inhalating-term local effects inhalating-term systemic effects inhalating-term systemic effects inhalating-term systemic effect	as in low.	NIOSH NIOSH OSHA OSHA halation ermal halation tion ermal	Value 1210 mg/m³ 2420 mg/m³ 186 mg/kg bw/day Value 700 mg/m³ 700 mg/m³ 700 mg/m³ 2016 mg/kg bw/day	Remark	

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Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	3000 mg/m³	
	Long-term systemic effects dermal	432 mg/kg bw/day	
NEL/DMEL - General po <mark>pulatio</mark>	<u>n</u>		l .
etone			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	200 mg/m³	
	Long-term systemic effects dermal	62 mg/kg bw/day	
	Long-term systemic effects oral	62 mg/kg bw/day	
<u>rclohexane</u>			1
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	206 mg/m³	
	Acute systemic effects inhalation	412 mg/m³	
	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	
pentane			1
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	643 mg/m ³	
	Long-term systemic effects dermal	214 mg/kg bw/day	
	Long-term systemic effects oral	214 mg/kg bw/day	
entane			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	643 mg/m³	
	Long-term systemic effects dermal	214 mg/kg bw/day	
	Long-term systemic effects oral	214 mg/kg bw/day	
<u>NEC</u>			
<u>cetone</u>			
cetone Compartments	Value	Remark	
	Value 10.6 mg/l	Remark	
Compartments		Remark	
Compartments Fresh water	10.6 mg/l	Remark	
Compartments Fresh water Aqua (intermittent rele <mark>ases)</mark>	10.6 mg/l 21 mg/l	Remark	
Compartments Fresh water Aqua (intermittent releases) Marine water	10.6 mg/l 21 mg/l 1.06 mg/l	Remark	
Compartments Fresh water Aqua (intermittent releases) Marine water STP	10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l	Remark	
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment	10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw	Remark	
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment	10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw	Remark	
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil	10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw	Remark	
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil colohexane	10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw		
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments	10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw		
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water	10.6 mg/l 21 mg/l 1.06 mg/l 1.06 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l		
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water	10.6 mg/l 21 mg/l 1.06 mg/l 1.06 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l		
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Aqua (intermittent releases)	10.6 mg/l 21 mg/l 1.06 mg/l 1.06 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l		
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil colohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP	10.6 mg/l 21 mg/l 1.06 mg/l 1.06 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l		
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment	10.6 mg/l 21 mg/l 1.06 mg/l 1.06 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 3.627 mg/kg sediment dw		
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment	10.6 mg/l 21 mg/l 1.06 mg/l 1.06 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 3.627 mg/kg sediment dw 3.627 mg/kg sediment dw		
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil Colohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Marine water sediment Soil	10.6 mg/l 21 mg/l 1.06 mg/l 1.06 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 3.627 mg/kg sediment dw 3.627 mg/kg sediment dw		
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil Colohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Soil Entane	10.6 mg/l 21 mg/l 1.06 mg/l 1.06 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 3.627 mg/kg sediment dw 3.627 mg/kg sediment dw 2.99 mg/kg soil dw	Remark	
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil colohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Soil colohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Soil contane Compartments	10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 3.627 mg/kg sediment dw 3.627 mg/kg sediment dw 2.99 mg/kg sediment dw	Remark	
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Compartments Fresh water Compartments Fresh water Compartment Fresh water sediment Compartment Soil Compartment Compartments Fresh water	10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 3.627 mg/kg sediment dw 3.627 mg/kg sediment dw 2.99 mg/kg sediment dw 2.99 mg/kg soil dw	Remark	
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Compartments Fresh water Compartments Fresh water Aqua (intermittent releases) STP Fresh water sediment Compartments Fresh water sediment Soil Compartments Fresh water sediment Soil Compartments Fresh water	10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 3.627 mg/kg sediment dw 2.99 mg/kg soil dw	Remark	
Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Compartments Fresh water Compartments Fresh water Marine water sediment Marine water sediment Compartments Fresh water sediment Soil Entane Compartments Fresh water Aqua (intermittent releases)	10.6 mg/l 21 mg/l 1.06 mg/l 1.06 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 3.627 mg/kg sediment dw 3.627 mg/kg sediment dw 2.99 mg/kg soil dw	Remark	
Compartments Fresh water Aqua (intermittent releases) Marine water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Compartments Fresh water sediment Marine water sediment Fresh water sediment Soil Entane Compartments Fresh water Aqua (intermittent releases) STP	10.6 mg/l 21 mg/l 1.06 mg/l 1.06 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 3.627 mg/kg sediment dw 2.99 mg/kg soil dw	Remark	

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.

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8.2.1 Appropriate engineering controls

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. 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

Avoid prolonged and repeated contact with skin. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type AX at conc. in air > exposure limit.

b) Hand protection:

Gloves.

c) Eye protection:

Protective goggles.

d) Skin protection:

Protective clothing. Head/neck protection.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form		Aerosol
Odour		Characteristic odour
Odour threshold		No data available
Colour		No data available on colour
Particle size		No data available
Explosion limits		<mark>No data availa</mark> ble
Flammability		Extremely flammable aerosol.
Log Kow		Not applicable (mixture)
Dynamic viscosity		No data available
Kinematic viscosity		No data available
Melting point		No data available
Boiling point		No data available
Evaporation rate		No data available
Relative vapour density		No data available
Vapour pressure		No data available
Solubility		Water ; insoluble
Relative density		No data available
Decomposition temperat	ture	No data available
Auto-ignition temperatu	re	No data available
Flash point		No data available
Explosive properties		No chemical group associated with explosive properties
Oxidising properties		No chemical group associated with oxidising properties
рН		No data available

9.2. Other information

Absolute density No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

No data available.

10.4. Conditions to avoid

Precautionary measures

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5. Incompatible materials

No data available.

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10.6. Hazardous decomposition products

Upon combustion: formation of CO, CO2 and small quantities of phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

Contact Spray Adhesive

No (test)data on the mixture available

Judgement is based on the relevant ingredients

acetone

tone							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	5800 mg/kg		Rat (female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	20000 mg/kg	7	Rabbit (male)	Experimental value	
Inhalation (vapours)	LC50	Other	76 mg/l	4 h	Rat (female)	Experimental value	
Inhalation (vapours)	LCL0	Other	16000 ppm	4 h	Rat	Experimental value	

cyclohexane

Route of exposure	Parameter	Method	Value	Exposure time	-1	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	> 5000 mg/kg bw		, ,	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 2000 mg/kg bw		Rabbit (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 32.88 mg/l air	4 h	Rat (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 19.07 mg/l	4 h	Rat (male/female)	Experimental value	

isopentane

Route of exposure	Parameter	Method	Value	Exposure time	-	Value determination	Remark
Oral	LD50	OECD 423	<mark>> 5000 m</mark> g/kg		Rat (male/female)	Read-across	
Dermal						Data waiving	
Inhalation (vapours)	LC50	OECD 403	> 25.3 mg/l	4 h	Rat (male/female)	Read-across	

pentane

entane								
Route of exposure	Paran	neter	Method	Value	Exposure ti	me Species	Value determination	Remark
Oral	LD50		OECD 401	> 2000 mg/kg		Rat (male/female)	Experimental value	
Dermal							Data waiving	
Inhalation (vapours)	LC50			> 20 mg/l air	4 h	Rat (male/female)	Experimental value	

Conclusion

Not classified for acute toxicity

Corrosion/irritation

Contact Spray Adhesive

No (test)data on the mixture available

Judgement is based on the relevant ingredients

acetone

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Irritating	OECD 405		24; 48; 72 hours	Rabbit	Weight of evidence	
Skin	Not irrit <mark>ating</mark>	Other	3 day(s)	24; 48; 72 hours	Guinea pig	Weight of evidence	
Inhalation	0 1 1 0	Human observation study	20 minutes		Human	Literature	

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Eye Slightly initiating Equivalent to OCD	<u>cyclohexane</u>				•			
Skin Not Irritating Suvolent to EU 4 h	Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Skin irritating is category 2 inhabition inhabition irritating is category 2 inhabition irritating is category 2 inhabition inhabition inhabition inhabition inhabition inhabition irritating is category 2 inhabition	Eye	Slightly irritating	- '		1 hour	Rabbit	Experimental value	
Inhebation in tritating Indicated Proposure Result	Skin	Not irritating		4 h	24; 48; 72 hours	Rabbit	Experimental value	
Inhalation irritating inhalation irritating inhomotory in the properties in the prop	Skin	0.					Annex VI	
Route of exposure Result Method Sxposure time litine point Species Value determination Remark bin Not irritating OECD 405 1, 24, 48, 72 hours Rabbit Read-across 1, 24, 48, 72 hours Rabbit Read-acro	Inhalation						Literature study	
Skin Not irritating OECD 405 1; 24; 48; 72 hours Rabbit Read-across Skin Not irritating Equivalent to DECD 4 h		b "	h a	<u></u>	l -	lo ·	hr.	ln 1
Skin Not irritating Equivalent to OECD 4 h 24; 72 hours Rabbit Read across pertane Route of exposure Result Method Exposure time Time point Species Value determination Equivalent to OECD 4 h 24; 48; 72 hours Rabbit Experimental value Single exposure Result Single exposure Result R	Route of exposure	Result	Method	Exposure time	Time point	·		Remark
pertance Route of exposure Result Route Route Route Result Route Rou		Not irrit <mark>ating</mark>	OECD 405		1; 24; 48; 72 hours		Read-across	
Route of exposure Result Method Exposure time Time point Species determination Remark Eye Not irritating OECD 405 1; 24; 48; 72 hours Rabbit Experimental value Single exp Skin Not irritating equivalent to OECD 4 in 24; 48; 72 hours Rabbit Experimental value Single exp And Aux Park Park Park Park Park Park Park Park	Skin	Not irritating		4 h	24; 72 hours	Rabbit	Read-across	
Fye Not irritating DECD 405 Skin Not irritating Equivalent to OECD 4 h Skin Not irritating Human 24 h Disservation Human Experimental value Disservation Human Unterature Disservation Hum	pentane							1
Eye Not irritating OECD 40S 1; 24; 48; 72 hours Rabbit Experimental value Single exp Skin Not irritating Equivalent to OECD 4 h 24; 48; 72 hours Rabbit Experimental value Skin Not irritating to the skin Not classified as irritating to the skin Not classified as irritating to the eyes Not classified as irritating to the respiratory system ratory or skin sensitizing to the respiratory system ratory or skin sensitizing to the relevant ingredients accrone Route of exposure Result Method Exposure time Observation time Species Value determination Remark Skin Not sensitizing Auman observation Observation time Species Value determination Remark Point Skin Not sensitizing U Method Exposure time Observation time Species Value determination Remark Skin Not sensitizing U Method Exposure time Observation time Species Value determination Remark Point Skin Not sensitizing Equivalent to OECD 466 (male/female) Experimental value (female) Experimental value		Result	Method	Exposure time	Time point	Species		Remark
Skin Not irritating Equivalent to OECO 4 h 24; 48; 72 hours Rabbit Experimental value observation time observation time observation observation observation time observation time observation time observation observation time obser	Fve	Not irritating	OFCD 405		1: 24: 48: 72 hours	Rabbit		Single exposu
Skin Not initiating to the skin Not classified as irritating to the skin Not classified as irritating to the skin Not classified as irritating to the eyes Not classified as irritating to the eyes Not classified as irritating to the respiratory system ratory or skin sensitisation tact Spray Adhesive Not (test)data on the mixture available Undgement is based on the relevant ingredients acctone Route of exposure Result Method Exposure time Disservation time Species Value determination Remark point Not sensitizing Fuman observation Disservation time Species Value determination Remark Disservation Not sensitizing Eu Method Exposure time Disservation time Species Value determination Remark Disservation Skin Not sensitizing Equivalent to OECD Value Disservation time Species Value determination Remark Disservation Skin Not sensitizing Equivalent to OECD Value Disservation time Species Value determination Remark Disservation Time Species Value Dis			Equivalent to OECD	4 h				этын схроза
Not classified as irritating to the skin Not classified as irritating to the eyes Not classified as irritating to the respiratory system iratory or skin sensitisation ttact Scray Adhesive No (test)data on the mixture available Ludgement is based on the relevant ingredients acetone Route of exposure Result Method Exposure time point Skin Not sensitizing Human observation cyclohexane Route of exposure Result Method Exposure time point Skin Not sensitizing EU Method B.6 24, 48 hours Guinea pig male/female) Experimental value Experimental value Route of exposure Result Method Exposure time point Skin Not sensitizing EU Method B.6 24, 48 hours Guinea pig male/female) Experimental value Experim	Skin	Not irritating	Human	24 h		Human	Experimental value	
Not classified as irritating to the eyes Not classified as irritating to the eyes Not classified as irritating to the respiratory system ratory or skin sensitisation tact Spray Adhesive No (test)data on the mixture available Judgement is based on the relevant ingredients accetone Route of exposure Result Method Exposure time point Human Juterature			observation					
Skin Not sensitizing Human observation Human Literature	Judgement is based or		gredients					
Route of exposure Result Method Exposure time Dobservation time point Skin Not sensitizing EU Method B.6 24; 48 hours Guinea pig (male/female) Experimental value (male/female) Species point Skin Not sensitizing Equivalent to OECD 406 Exposure time Dobservation time point Skin Not sensitizing Equivalent to OECD 406 Exposure time Dobservation time point Skin Not sensitizing Equivalent to OECD 406 Exposure time Dobservation time point Skin Not sensitizing Equivalent to OECD 406 Exposure time Dobservation time point Skin Not sensitizing Equivalent to OECD 406 Exposure time Dobservation time point Skin Not sensitizing Equivalent to OECD 406 Exposure time Dobservation time point Skin Not sensitizing Equivalent to OECD 406 Exposure time Dobservation time point Skin Not sensitizing for skin Not classified as sensitizing for inhalation Iffic target organ toxicity stact Spray Adhesive Io (test)data on the mixture available Classification is based on the relevant ingredients		Result	Method	Exposure time		Species	Value determination	Remark
Route of exposure Result Method Exposure time Discoveration time point Skin Not sensitizing Route of exposure Intradermal Not sensitizing Route of exposure Result Method Exposure time Discoveration time point Discoveration time point Not sensitizing Route of exposure Route of expos	Skin	Not sens <mark>itizing</mark>	Human observation			Human	Literature	
Skin Not sensitizing EU Method B.6 24; 48 hours Guinea pig (male/female) Sopentane			,					
Sopentane Route of exposure Result Method Exposure time Observation time Species Dobe the point Poin	Route of exposure	Result	Method	Exposure time		Species	Value determination	Remark
Route of exposure Result Method Exposure time Observation time Species Value determination Remark	Skin	Not sensitizing	EU Method B.6		24; 48 hours		Experimental value	
Route of exposure Result Method Exposure time Observation time point Species Value determination Remark Skin Not sensitizing Equivalent to OECD 406 Onclusion Not classified as sensitizing for skin Not classified as sensitizing for inhalation iffic target organ toxicity ntact Spray Adhesive to (test)data on the mixture available Classification is based on the relevant ingredients		Result	Method	Exposure time		Species	Value determination	Remark
Route of exposure Result Method Exposure time Observation time point Skin Not sensitizing Equivalent to OECD 406 Not sensitizing Equivalent to OECD 406 Onclusion Not classified as sensitizing for inhalation Iffic target organ toxicity Intact Spray Adhesive To (test)data on the mixture available Classification is based on the relevant ingredients	Intradermal	Not sens <mark>itizing</mark>			24; 48 hours		Experimental value	
Skin Not sensitizing Equivalent to OECD 406 Onclusion Not classified as sensitizing for skin Not classified as sensitizing for inhalation iffic target organ toxicity ntact Spray Adhesive Io (test)data on the mixture available Classification is based on the relevant ingredients	pentane							
dos (female) onclusion Not classified as sensitizing for skin Not classified as sensitizing for inhalation fic target organ toxicity ntact Spray Adhesive o (test)data on the mixture available Classification is based on the relevant ingredients	Route of exposure	Result	Method	Exposure time		Species	Value determination	Remark
Not classified as sensitizing for inhalation Not classified as sensitizing for inhalation Ific target organ toxicity Intact Spray Adhesive o (test)data on the mixture available Classification is based on the relevant ingredients	Skin	Not sens <mark>itizing</mark>			24 hours		Experimental value	
Not classified as sensitizing for skin Not classified as sensitizing for inhalation ific target organ toxicity ntact Spray Adhesive Io (test)data on the mixture available Classification is based on the relevant ingredients	onclusion		L			· · ·		
ific target organ toxicity htact Spray Adhesive o (test)data on the mixture available Classification is based on the relevant ingredients	Not classified as sensit	tizing for skin						
ntact Spray Adhesive o (test)data on the mixture available Classification is based on the relevant ingredients	Not classified as sensit	tizing for <mark>inhalati</mark>	on	1				
o (test)data on the mixture avai <mark>lable</mark> Classification is based on the re <mark>levant ingredients</mark>	fic target organ toxici	ty						
Classification is based on the re <mark>levant ingredients</mark>								
			ngradionts					
	Classification is based	on the relevant i	ngreaients					
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Route of exposure	Param	eter	Method	Value	Organ	Effect	Exposure time	Species	Value determinatio
Oral	NOAEL		Equivalent to OECD 408	20 mg/l		No effect	13 week(s)	Mouse (male/female)	Experimental
Dermal			UECD 400					(male/Ternale)	value Not relevant,
									expert judger
Inhalation (vapours)	NOAEC		Other	19000 ppm		No effect	8 week(s)	Rat (male)	Literature
Inhalation (vapours)	Dose le	evel	Human observation study	361 ppm	Central nervo	us neurotoxic effects	2 day(s)	Human	Inconclusive, insufficient da
Route of exposure	Param	eter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral									Data waiving
Dermal									Data waiving
Inhalation	NOAEC	;	EPA OPPTS	7000 ppm		No adverse	13 weeks (6h/day, 5	Rat	Experimental
(vapours)			870.3465			systemic effe	ects days/week)	(male/female)	value
Inhalation (vapours)	NOAEC		EPA OPPTS 870.3465	500 mg/m³ air	Central nervo	us No effect	6 h	Rat (male/female)	Experimental value
opentane			-1	1		1		<u> </u>	I
	Param	eter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	Dose le	evel	Subacute toxicity test	500 mg/kg bw/day	Kidney	No effect	4 weeks (5 days/week)	Rat (male)	Experimental value
Dermal									Data waiving
Inhalation	NOEC		OECD 413	> 2220 ppm	General	No effect	13 weeks (6h/day, 5		Experimental
(vapours)							days/week)	(male/female)	value
Inhalation (vapours)	NOEC		OECD 413	≥ 6646 ppm	Central nervo	us No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
entane			•	•		•		•	•
Route of exposure	Param	eter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral									Data waiving
						_		1	_
Dermal									Data waiving
Inhalation (gases)	NOAEC		OECD 413	20000 mg/m ³		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Data waiving Experimental value
	or dizzir ronic to	ness. exicity		20000 mg/m ³		No effect			Experimental
Inhalation (gases) Inhalation (gases) Inclusion Indusion Indusion Indusion Indusion Indusion Indusion Indusion Inhalation (gases) Indusion Indusion Inhalation (gases) Inhalation (gases	or dizzir ronic to	ness. exicity	le	20000 mg/m³			days/week)	(male/female)	Experimental value
Inhalation (gases) Inhalation (gases) Inclusion Inday cause drowsiness of ot classified for subchrenicity (in vitro) Independent of the properties of the pr	or dizzir ronic to	ness. exicity	le 1ethod		Test substrate		days/week)	(male/female) Value det	Experimental value
Inhalation (gases) Inclusion In	or dizzir ronic to	ness. exicity vailab	le lethod quivalent to OEC	D 471	Bacteria (S.typl	himurium)	effect No effect	(male/female) Value det Experimen	Experimental value ermination ntal value
Inhalation (gases) Inhalation (gases) Inclusion Index cause drowsiness of ot classified for subchreenicity (in vitro) Index cat Spray Adhesive Index of testing the mixed of testing the mixed of the mi	or dizzir ronic to	ness. exicity vailab	le 1ethod	D 471		himurium)	days/week)	(male/female) Value det Experimen	Experimental value
Inhalation (gases) Inhalation (gases) Inclusion Inay cause drowsiness of ot classified for subchreenicity (in vitro) Inclusion Inay cause drowsiness of otenicity (in vitro) Inclusion Industrial Indu	or dizzir ronic to	vailab	le lethod quivalent to OEC quivalent to OEC	D 471	Bacteria (S.typl Chinese hamst	himurium) er ovary (CHO)	Effect No effect No effect	(male/female) Value det Experimen Experimen	Experimental value ermination ntal value ntal value
Inhalation (gases) Inhalation (gases) Inclusion Index cause drowsiness of ot classified for subchreenicity (in vitro) Index cat Spray Adhesive Index of testing the mixed of testing the mixed of the mixed of the mixed of testing the mixed of the mixed o	or dizzir ronic to xture a	vailab	le lethod quivalent to OEC quivalent to OEC	D 471 D 473	Bacteria (S.typl Chinese hamst Test substrate	himurium) er ovary (CHO)	Effect No effect No effect Effect	Value det Experimer Experimer Value det	Experimental value ermination ntal value ntal value ermination
Inhalation (gases) Inhalation (gases) Inclusion Inay cause drowsiness of ot classified for subchreenicity (in vitro) Inclusion Inay cause drowsiness of otenicity (in vitro) Inclusion Industrial Indu	or dizzir ronic to xture av	ness. vailab N E	le lethod quivalent to OEC quivalent to OEC	D 471 D 473	Bacteria (S.typl Chinese hamst	himurium) er ovary (CHO)	Effect No effect No effect	(male/female) Value det Experimen Experimen	Experimental value ermination ntal value ntal value ermination
Inhalation (gases) Inclusion Indexion Indexion Indexion Indexication (gases) Indexion Indexio	bolic without bo	wailab Market En	le lethod quivalent to OEC quivalent to OEC	D 471 D 473	Bacteria (S.typl Chinese hamst Test substrate	himurium) er ovary (CHO) himurium)	Effect No effect No effect Effect	Value det Experimer Experimer Value det	Experimental value ermination ntal value ntal value ermination ntal value
Inhalation (gases) Inhalation (gases) Inclusion Inday cause drowsiness of ot classified for subchromatic (in vitro) Index Spray Adhesive Index I	bolic without bo	wailab Market Electric Electr	le lethod quivalent to OEC quivalent to OEC lethod quivalent to OEC quivalent to OEC	D 471 D 473	Bacteria (S.typl Chinese hamst Test substrate Bacteria (S.typl Mouse (lymph cells)	himurium) er ovary (CHO) himurium) oma L5178Y	Effect No effect No effect No effect No effect No effect	Value det Experimen Experimen Experimen Experimen	Experimental value ermination ntal value ntal value ermination ntal value
Inhalation (gases) Inclusion Inday cause drowsiness of ot classified for subchrenicity (in vitro) Inday cause drowsiness of ot classified for subchrenicity (in vitro) Inday cause drowsiness of classified for subchrenicity (in vitro) Inday cause drows and the mixed of the mixed	bolic withou	wailab Wailab Eli It	le lethod quivalent to OEC quivalent to OEC lethod quivalent to OEC quivalent to OEC	D 471 D 473 D 471 D 476	Bacteria (S.typi Chinese hamst Test substrate Bacteria (S.typi Mouse (lymphocells)	himurium) er ovary (CHO) himurium) oma L5178Y	Effect No effect No effect No effect No effect Effect No effect Effect Figure 1	Value det Experimen Experimen Experimen Experimen Experimen Experimen	Experimental value ermination ntal value ntal value ermination ntal value ermination ntal value
Inhalation (gases) Inhalation (gases) Inclusion Inday cause drowsiness of ot classified for subchreenicity (in vitro) Index Spray Adhesive Index	bolic without	wailab wailab ke Ed	le lethod quivalent to OEC quivalent to OEC lethod quivalent to OEC quivalent to OEC	D 471 D 473 D 471 D 476	Bacteria (S.typl Chinese hamst Test substrate Bacteria (S.typl Mouse (lymph cells)	himurium) er ovary (CHO) himurium) oma L5178Y	Effect No effect No effect No effect No effect No effect	Value det Experimen Experimen Experimen Experimen	Experimental value ermination intal value ermination intal value ermination intal value ermination intal value intal value
Inhalation (gases) Inclusion Inday cause drowsiness of ot classified for subchrenicity (in vitro) Inday cause drowsiness of ot classified for subchrenicity (in vitro) Inday cause drowsiness of classified for subchrenicity (in vitro) Inday cause drowsine Inday cause Inda	bolic without bo	Note that the second se	le lethod quivalent to OEC quivalent to OEC lethod quivalent to OEC quivalent to OEC	D 471 D 473 D 476 D 471	Bacteria (S.typi Chinese hamst Test substrate Bacteria (S.typi Mouse (lymphocells)	himurium) er ovary (CHO) himurium) oma L5178Y	Effect No effect No effect No effect No effect Effect No effect Effect Figure 1	Value det Experimen Experimen Experimen Experimen Experimen Experimen	Experimental value ermination intal value ermination intal value ermination intal value ermination intal value

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				Conta	J L	opi a y	, wi	10317		_		
<u>pe</u>	entane_											
	Result	th mat-l!'	Metho			Test substrate		Effect No effe	o.t			e determination
		th metabolic egative without ctivation	Equiva	lent to OECD 471		Bacteria (S.typ	nimurium)	No effe	ect		Expe	rimental value
Mutage	enicity (in vivo)										
	oct Spray Adhe (test)data on	<u>sive</u> I the mixture a <mark>va</mark>	ilable									
	•	sed on the rele <mark>v</mark>	ant ingred	dients					н			
<u>ac</u>	etone Result			Method	Expo	sure time	Test	substrate		Organ		Value determination
	Negative				13 w	eek(s)	Mou	se (male/fem	ale)			Literature
<u>CY</u>	clohexane			ln a - att	F	\$1	br			h		Malana dalaman (malana
	Result Negative			Method Equivalent to OECD		sure time s (6h/day)		substrate male/female)		Organ Bone marro	214/	Value determination Experimental value
				475	5 uay	's (on/uay)	Nat (I	пате/теппате)	<u>.</u>	Bone man	Jw	experimental value
isc	Result			Method	Evno	sure time	Tost	substrate		Organ		Value determination
	Negative			EU Method B.12	ryho	sure time		male/female)		Bone marro	ow	Read-across
pe	entane			,				, remare)				
<u> </u>	Result			Method	Ехро	sure time	Test	substrate		Organ		Value determination
	Negative			EU Method B.12		eeks (6h/day, 5 'week)	Rat (ı	male/female)				Experimental value
Con	clusion				, , ,							
No Ju	dgement is ba	sive the mixture ava sed on the releva		lients								
<u>ac</u>	Route of	Parameter	Method	Value		Exposure time	Spe	ecies	Effect		Organ	Value determination
	exposure Dermal	NOEL	Other	79 mg		51 week(s)	Mo	ouse (female)	No ef	ect		Literature
iso	ppentane					` '						I
	Route of exposure	Parameter	Method	Value		Exposure time	e Sp∈	ecies	Effect		Organ	Value determination
	Inhalation											Data waiving
	Dermal								7			Data waiving
	Oral											Data waiving
pe	entane Dougla of	Dawanastan	N / a Alba a al	Malua			. lc		F661		0	Malue
	Route of exposure	Parameter	Method	Value		Exposure time	e Spe	ecies	Effect		Organ	Value determination
	Inhalation											Data waiving
	Dermal											Data waiving
	Oral											Data waiving
	clusion											
No	ot classified fo	r carcinogenicity										
Reprod	uctive toxicity	ı										
-	ct Spray Adhe											
		sive the mixture ava	ilable									
Ju	dgement is ba	sed on the releva	ant ingred	dients								
						7						
									4			
								Publica	tion dat	e: 2018-04-1	.7	

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<u>acetone</u>									
		Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developm	ental toxicity	NOAEC	Equivalent to OECD 414	11000 ppm	6 days (gestation, daily) - 19 days (gestation, daily)	Rat (male/female)			Experimental value
Effects on	fertility	NOAEL	Other	900 mg/kg bw/day	13 week(s)	Rat (male)	No effect		Literature
<u>cyclohexane</u>									
		Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developm	ental toxicity	NOAEC	Equivalent to OECD 414	7000 ppm	10 days (6h/day)	Rat	No effect		Experimental value
Maternal t	oxicity	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
<u>isopentane</u>									
		Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developm	ental toxicity	NOAEC	Equivalent to OECD 414	7000 ppm	2 weeks (6h/day, 5 days/week)	Rat	No effect	Foetus	Read-across
Maternal t	oxicity	NOAEC	OECD 414	500 ppm - 2000 ppm	2 weeks (6h/day, 5 days/week)	Rat	No effect		Read-across
Effects on	fertility	NOAEC	Equivalent to OECD 416	7000 ppm		Rat (male/female)	No effect		Read-across
pentane									
		Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developm	ental toxicity	NOAEL (P)	OECD 414	1000 mg/kg bw/day	10 day(s)	Rat (female)	No effect		Experimental value
Maternal t	oxicity	NOAEL	OECD 414	1000 mg/kg bw/day	10 day(s)	Rat (female)	No effect		Experimental value
Effects on	fertility	NOAEC (P/F1)	Equivalent to OECD 416	7000 ppm		Rat (male/female)	Reproductiv performance		Read-across
Conclusion Not classified t	for reprotoxic	or developmer	ntal toxicity						•
city other effec	ts								
ntact Spray Adh No (test)data of Classification is	on the mixture		dients						
Parameter	Metho	od \	/alue	Organ	Effect	Exposur	e time Sp	ecies	Value determination
				Skin	Skin dryness cracking	or			Literature study
<u>cyclohexane</u>					cracking				
Parameter	Metho	od \	/alue	Organ	Effect	Exposur	e time Sp	ecies	Value determination
NOAEC	Other		2000 ppm		neurotoxic e	effects 6 h	Ra	it (male)	Experimental value
LOAEC	Other		7000 ppm		neurotoxic e	effects 6 h		it (male)	Experimental val
Parameter	Metho	od N	/alue	Organ	Effect	Exposur	e time Sn	ecies	Value
- urumetei	Wietric	,,,	ruide	Skin	Skin dryness		o time op	, coics	determination Literature study
Conclusion Repeated expo	osure may cau	se skin dryness	or cracking.		cracking				Electric study
onic effects fron	n short and lo	ng-term expos	ure						
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Contact Spray Adhesive No effects known.

SECTION 12: Ecological information

12.1. Toxicity

Contact Spray Adhesive

No (test)data on the mixture available

Classification is based on the relevant ingredients

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		Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes		LC50	EU Method C.1	<mark>5540</mark> mg/l	96 h	Salmo gairdneri	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea		LC50	Other	12600 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aqua plants	itic	EC50		> 7000 mg/l	96 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; Nominal concentration
Long-term toxicity aquatic crustacea		NOEC	Equivalent to OECD 211	2212 mg/l	28 day(s)		Flow-through system	Fresh water	Experimental value

cyclohexane

<u>yclonexane</u>									
		Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes		LC50	Equivalent to OECD 203	4.53 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value; Measured concentration
Acute toxicity crustacea		EC50	Equivalent to OECD 202	0.9 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquaplants	atic	ErC50	Equivalent to OECD 201	9.317 mg/l	72 h	Pseudokirchneriel la subcapitata			Experimental value; GLP
		NOEC	OECD 201	0.94 mg/l	72 h	Pseudokirchneriel la subcapitata			Experimental value; Growth rate
Long-term toxicity fish									Data waiving
Long-term toxicity aquatic crustacea									Data waiving
Toxicity aquatic micro- organisms		IC50		29 mg/l	15 h	Aerobic micro- organisms			Experimental value; Nominal concentration

<u>isopentane</u>

		Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes			Equivalent to OECD 203	4.26 mg/l		Oncorhynchus mykiss	Static system	Fresh water	Read-across; GLP
Acute toxicity crustacea			Equivalent to OECD 202	2.3 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aqua plants	tic	ErC50	OECD 201	10.7 mg/l	17/	Selenastrum capricornutum	Static system	Fresh water	Read-across; GLP
Long-term toxicity fish		NOELR		7.618 mg/l	, , ,	Oncorhynchus mykiss		Fresh water	QSAR
Long-term toxicity aquatic crustacea		NOELR		13.29 mg/l	21 day(s)	Daphnia magna		Fresh water	QSAR; Nominal concentration
Toxicity aquatic micro- organisms		EL50		130.9 mg/l	48 h	Tetrahymena pyriformis		Fresh water	Growth inhibition

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<u>entane</u>	Parameter	Method	Value)	Duratio	n S	Species	Test design	Fresh/salt	Value determina
Anata tariati Cala							•		water	
Acute toxicity fishes	LC50	Equivalent to OECD 203			96 h	r	Oncorhynchus mykiss		n Fresh water	Experimental va GLP
Acute toxicity crustacea	EC50	Other	2.7 m	ng/l	48 h		Daphnia magna		n Fresh water	Experimental va
Toxicity algae and other aquati plants	c ErC50	OECD 201	10.7	mg/l	72 h	9	Genedesmus sp.	Static system	resh water	Experimental va GLP
Long-term toxicity fish	NOELR		6.165	mg/l	28 day(s		Oncorhynchus mykiss		Fresh water	QSAR; Growth ra
Long-term toxicity aquatic crustacea	NOELR		10.76	5 mg/l	21 day(s	s) [Daphnia magna		Fresh water	QSAR; Reproduc
nclusion										
oxic to aquatic life with long las	ting effects.									
2.2. Persistence and degra	_									
cetone	addonity									
Biodegradation water										
Method		Value				Duratio	n	V	alue determina	tion
OECD 301B: CO2 Evolution T	est	90.9 %			2	28 day(s	s)	Ex	xperimental val	ue
<u>yclohexane</u>								4		
Biodegradation water		h								
Method		Value				Duratio			alue determina	
OECD 301F: Manometric Res	pirometry Te	st 77 %; GLP				28 day(s	5)	E	xperimental val	ue
Half-life soil (t1/2 soil)		Value				Drim		h.	alua data	tion
Method		Value				Primary degrada	ntion/mineralisat		alue determina	uUII
		28 day(s) - 18	0 day(s)		g. auc			terature study	
sopentane		1 7(-7 =-	- / (,	
Biodegradation water										
Method		Value			I	Duratio	n	V	alue determina	tion
OECD 301F: Manometric Res	pirometry Te	st 71.43 %; Oxy	gen co	nsumpt	ion 2	28 day(s	5)	Ex	xperimental val	ue
Half-life air (t1/2 air)										
Method		Value				Primary			alue determina	tion
		224- ()					ntion/mineralisat			
		2.3 day(s)				rimary	degradation	Li	terature study	
entane Biodegradation water										
Method		Value			ı	Duratio	n	V	alue determina	tion
Equivalent or similar to OECL	301F	87 %; GLP				28 day(s			xperimental val	
Phototransformation air (DT50		J. 73, GEI					''			
Method		Value			lo	Conc. O	H-radicals	V	alue determina	tion
		3.95 day(s)				500000		C	alculated value	
nclusion										
Contains non readily biodegrada	ble compone	nt(s)								
2.3. Bioaccumulative pote	ential									
act Spray Adhesive										
g Kow										
	emark	İ	Value			h	Temperature		Value determir	nation
N	ot applicable	(mixture)								
cotono										<u> </u>
cetone BCF fishes										
Parameter Method	W	alue	ייום	ration		Specie	ns.		Value d	etermination
BCF IVIETIOG		69	Dui	211011		Pisces			value u	o.ommunon
BCF other aquatic organisms	0.					13663				
Parameter Method	V	alue	Dui	ration		Specie	es .		Value d	etermination
BCF BCFWIN	3					7,50,0				ed value
Log Kow	J				7				Salcalut	
Method	Remark		Val	ue			Temperature		Value deter	rmination
	Remark		Val -0.2	_			Temperature		Value deter Test data	rmination

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	Method	Value		Duration	Specie	es .		Value determination
BCF		167			Pimep	hales promelas		QSAR
og Kow								
Method		Remark	١	/alue		Temperature	V	alue determination
Other			3	3.44		25 °C	E	xperimental value
<u>pentane</u>								
CF fishes								T
Parameter	Method	Value		Ouration	Specie			Value determination
BCF		171			Pimep	hales promelas		Read-across
og Kow		b .				-	h.	
Method		Remark		/alue		Temperature		/alue determination
OECD 117			4			25 °C	E:	xperimental value
ntane								
BCF fishes Parameter	Method	Value	Ir	Duration	Specie	NC.		Value determination
	ivietnoa		L	Juration	•			
BCF		171			Pimep	hales promelas		QSAR
og Kow Method		Remark	,	/alue		Tomporaturo	lv	/alue determination
		remark	\	laiue		Temperature	V	alue determination
			2	2.45		25 °C	F.	vnerimental value
Other clusion Intains bioaccumul 4. Mobility in sclohexane			3	3.45		25 °C	E	xperimental value
Other Clusion ntains bioaccumul 4. Mobility in sclohexane log) Koc			3					
Other Clusion Intains bioaccumul 4. Mobility in sclohexane log) Koc Parameter			2	Method Other		25 °C Value 2.89		value determination QSAR
Other Clusion Intains bioaccumul 4. Mobility in sclohexane log) Koc Parameter log Koc			2	Method		Value		Value determination
Other Clusion Intains bioaccumul 4. Mobility in scheene log) Koc Parameter log Koc pentane			2	Method		Value		Value determination
Other Clusion ntains bioaccumul 4. Mobility in schexane log) Koc Parameter log Koc pentane			2	Method		Value		Value determination
Other Clusion Intains bioaccumul 4. Mobility in scheneane log) Koc Parameter log Koc pentane log) Koc				Method Other		Value 2.89		Value determination QSAR
Other clusion ntains bioaccumul 4. Mobility in s clohexane log) Koc Parameter log Koc pentane log) Koc Parameter log) Koc Parameter log Koc Parameter log Koc	soil			Method Other		Value 2.89 Value		Value determination QSAR Value determination
Other Clusion Intains bioaccumul 4. Mobility in sclohexane log) Koc Parameter log Koc Iog) Koc Parameter log Koc Parameter log) Koc Parameter log) Koc Parameter	soil	nent(s)		Method Other Method	Fraction soil	Value 2.89 Value		Value determination QSAR Value determination Read-across
Other Clusion ntains bioaccumul 4. Mobility in statement log) Koc Parameter log Koc pentane log) Koc Parameter log Koc Parameter log Koc Parameter log Koc Parameter	soil	nent(s)	biota Fractic	Method Other Method	Fraction soil 0.1 %	Value 2.89 Value 2.9		Value determination QSAR Value determination Read-across ination
Other Clusion Intains bioaccumul 4. Mobility in statement log) Koc Parameter log Koc Ingentane log) Koc Parameter log Koc Percent distribution Method	on Fraction	nent(s)	biota Fractic sedim	Method Other Method		Value 2.89 Value 2.9 Fraction water	Value determ	Value determination QSAR Value determination Read-across ination
Other Clusion Intains bioaccumul 4. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumul A. Mobility in sclohexane log) Koc Intains bioaccumul Inta	on Fraction	nent(s)	biota Fractic sedim	Method Other Method		Value 2.89 Value 2.9 Fraction water	Value determ	Value determination QSAR Value determination Read-across ination
Other Clusion Intains bioaccumul 4. Mobility in secondary Clohexane Clog) Koc Parameter Clog Koc Method Mackay level III Containe	on Fraction	nent(s)	biota Fractic sedim	Method Other Method		Value 2.89 Value 2.9 Fraction water 3 %	Value determ	Value determination QSAR Value determination Read-across ination
Other Clusion Intains bioaccumul 4. Mobility in secondary Clohexane Iog) Koc Parameter Iog Koc Percent distribution Mackay level III Intane Iog) Koc	on Fraction	nent(s)	biota Fractic sedim	Method Other Method on ent		Value 2.89 Value 2.9 Fraction water 3 %	Value determ	Value determination QSAR Value determination Read-across ination ue
Other Clusion Intains bioaccumul 4. Mobility in state of the state of	Fraction a 95.9 %	nent(s) air Fraction 0 %	biota Fractic sedim 0.9 %	Method Other Method On ent Method	0.1%	Value 2.89 Value 2.9 Fraction water 3 % Value 2.9	Value determ Calculated val	Value determination QSAR Value determination Read-across ination ue Value determination QSAR
Other Clusion Intains bioaccumul 4. Mobility in statement of the second	Fraction a 95.9 %	nent(s) air Fraction 0 %	biota Fractic sedim 0.9 %	Method Other Method On ent Method		Value 2.89 Value 2.9 Fraction water 3 %	Value determ	Value determination QSAR Value determination Read-across ination ue Value determination QSAR

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Contact Spray Adhesive

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

Groundwater

Groundwater pollutant

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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, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

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

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

13.1.3 Packaging/Container

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 na	me	
Proper shipping name		Aerosols
14.3. Transport hazard class((es)	
Hazard identification nur	mber	
Class		2
Classification code		5F
14.4. Packing group		
Packing group		
Labels		2.1
14.5. Environmental hazards	3	
Environmentally hazardo	ous substance mark	yes
14.6. Special precautions for	user	
Special provisions		190
Special provisions		327
Special provisions		344
Special provisions		625
Limited quantities		Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Rail (RID)		
14.1. UN number		
UN number		1950
14.2. UN proper shipping na	me	
Proper shipping name		Aerosols
14.3. Transport hazard class	(es)	
Hazard identification nur	mber	23
Class		2
Classification code		5F
14.4. Packing group		
Packing group		
Labels		2.1
14.5. Environmental hazards		
Environmentally hazardo	ous substance mark	yes
14.6. Special precautions for	user	
Special provisions		190
Special provisions		327

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	1 3
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
4	liquids. A package shall not weigh more than 30 kg. (gross mass)
Jand waterways (ADN)	
Iland waterways (ADN) 14.1. UN number	
	Logo.
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardo <mark>us substance mar</mark>	yes
14.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
	liquids. A package shall not weigh more than 30 kg. (gross mass)
ea (IMDG/IMSBC)	
14.1. UN number	
UN number	1000
	1950
14.2. UN proper shipping name	Agracals
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	la d
Class	2.1
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Marine pollutant	P
Environmentally hazardous substance mar	k yes
14.6. Special precautions for user	
Special provisions	63
Special provisions	190
Special provisions	277
Special provisions	327
Special provisions	344
Special provisions	381
Special provisions	959
Limited quantities	Combination packagings: not more than 1 liter per inner packaging fo
	liquids. A package shall not weigh more than 30 kg. (gross mass)
14.7. Transport in bulk according to Annex II of	
Annex II of MARPOL 73/78	Not applicable
ir (ICAO-TI/IATA-DGR)	
14.1. UN number	
UN number	1950
	1330
14.2. UN proper shipping name	Assessed Generality
Proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
14.4. Packing group	
14.4. Packing group Packing group	
	2.1

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Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	A145
Special provisions	A167
Special provisions	A802
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	F	Remark	
92.55365 % - 95.99369 <mark>%</mark>			

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

15-30% aliphatic hydrocarbons, 5-15% aromatic hydrocarbons

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture Conditions of restriction
acetone cyclohexane isopentane pentane	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria phases, for example in ornamental lamps and ashtrays, — ricks and jokes, and parard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to E; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 5.1. (d) hazard class 5.1. (e) hazard class 5.1. (f) hazard class 5.1. (h) hazard class 6.1. (h) hazard haza
acetone cyclohexane isopentane pentane	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not. 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aeroso 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 mai 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 refer to Article 8 (1a) of Council Directive 75/ 324/EEC.

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unless they conform to the requirements indicated. cyclohexane 1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the		- Ooritact	Spray Adricsive
general public, as a constituent of regimen based contact adhesives in concentrations equal to or greater than 0.3 % by weight produces are greater than 30 or. 2. Receptive based contact otherwise containing cytchbeane and not content of the product of the components of the market for supply to the general public other 27. 3. Without prejude to other Community legislation concerning the classification, partiaging and labeling drabationes and markets. Supplies shall excurse before the placing on the market that recoption based contact adhesives repeated in the market than 19.6 % upsight that are placed to market for supply to the general public after 27 December 2010 are visibly, legibly and indeblidy marked as follows: — This product is not to be used under carefulation of poor ventilation. — This product is not to be used under carefulation of poor ventilation. — This product is not to be used under carefulation of poor ventilation. — This product is not to be used of careful significant or to be used for careful significant. — This product is not to be used for careful significant or the poor ventilation. — This product is not to be used for careful significant or the poor ventilation. — This product is not to be used for careful significant or the poor ventilation. — This product is not to be used for careful significant or the poor ventilation. — This product is not to be used for careful significant or the poor ventilation. — This product is not to be used for careful significant or the poor ventilation. — This product is not to be used for careful significant or the second significant or the poor ventilation. — This product is not to be used for careful significant or the poor ventilation. — The product is not to be used for careful significant or the poor ventilation. — The product is not to be used for careful significant or the poor ventilation. — This product is not to be used for careful significant or the poor ventilation. — This product is not to be used for careful significant or			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.
Contact Spray Adhesive No data available National legislation The Netherlands Contact Spray Adhesive Waterberwaariijkheid Ž (2) National legislation France Contact Spray Adhesive No data available National legislation Germany Contact Spray Adhesive WGK 2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender stoffe (wwws) of 27 July 2005 (Anhang 4) and Verordnung über Anlagen zum Umgang mit wassergefährdender Stoffen (AwSV) of 18 April 2017 acetione TA-Luft 5.2.5 TRGS900 - Risiko der Aceton; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden cyclohexane TA-Luft 5.2.5; I sopentane TA-Luft 5.2.5; I pentane TA	· cyclohexane	Cyclohexane	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. Neoprene-based contact adhesives containing cyclohexane and not conforming to paragraph 1 shall 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, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that neoprene-based contact adhesives containing cyclohexane in concentrations 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 follows: "— This product is not to be used under conditions of poor ventilation.
National legislation The Netherlands Contact Spray Adhesive Waterbezwaarilijkheid	National legislation Belgium		
Materberwaarlijkheid Z (2)			
National legislation France	National legislation The Neth	nerlands	
National legislation France	Contact Spray Adhesive		
National legislation Germany Contact Spray Adhesive WGK 2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (Wwws) of 27 July 2005 (Anhang 4) and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) of 18 April 2017 acetone TA-Luft 5.2.5 TRC5900 - Risiko der Fruchtschädigung Grenzwertes nicht befürchtet zu werden cyclohexane TA-Luft 5.2.5; I isopentane TA-Luft 5.2.5; I pentane TA-Luft 5.2.5; I pentane TA-Luft 5.2.5; I pentane TA-Luft 5.2.5; I Pentan; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden Water Spray Adhesive No data available Other relevant data Contact Spray Adhesive No data available acetone		Z (2)	
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Contact Spray Adhesive WGK 2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4) and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) of 18 April 2017 acetone TA-Luft 5.2.5 TRGS900 - Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden cyclohexane TA-Luft 5.2.5; I sopentane TA-Luft 5.2.5; I pentane TA-Luft 5.2.5; I TRGS900 - Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden Wational legislation United Kingdom Contact Spray Adhesive No data available Other relevant data Contact Spray Adhesive No data available acetone	National logislation Corman		
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isopentane TA-Luft pentane TA-Luft TRGS900 - Risiko der Fruchtschädigung Pentan; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden National legislation United Kingdom Contact Spray Adhesive No data available Other relevant data Contact Spray Adhesive No data available acetone			
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pentane TA-Luft TS-2.5; I TRGS900 - Risiko der Fruchtschädigung Pentan; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden National legislation United Kingdom Contact Spray Adhesive No data available Other relevant data Contact Spray Adhesive No data available acetone			
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TRGS900 - Risiko der Fruchtschädigung Pentan; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden National legislation United Kingdom Contact Spray Adhesive No data available Contact Spray Adhesive No data available acetone		har.	
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Contact Spray Adhesive No data available Other relevant data Contact Spray Adhesive No data available acetone			
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Contact Spray Adhesive No data available acetone			
Contact Spray Adhesive No data available acetone	Other relevant data		
	Contact Spray Adhesive		
TLV - Carcinogen Acetone; A4	<u>acetone</u>		
	TLV - Carcinogen	Acetone; A4	

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 heading 3:

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H224 Extremely flammable liquid and vapour.
- H225 Highly flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

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H336 May cause drowsiness or dizziness.

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

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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