## SAFETY DATA SHEET

novatio

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

## SILFIX PRIMER

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

### 1.1. Product identifier

: SILFIX PRIMER Product name **Registration number REACH** Product type REACH : Mixture

: Not applicable (mixture)

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

1.2.1 Relevant identified uses Hardener

1.2.2 Uses advised against

No uses advised against

### 1.3. Details of the supplier of the safety data sheet

### Supplier of the safety data sheet

Novatio\* Industrielaan 5B B-2250 Olen +32 14 25 76 40 **▲** +32 14 22 02 66 info@novatio.be \*NOVATIO is a registered trademark of Novatech International N.V.

### Manufacturer of the product

Novatech International N.V. Industrielaan 5B B-2250 Olen +32 14 85 97 37 🛥 +32 14 85 97 38 info@novatech.be

### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) : +32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Flam. Liq.	category 2	H225: Highly flammable liquid and vapour.
Asp. Tox.	category 1	H304: May be fatal if swallowed and enters airways.
Skin Irrit.	category 2	H315: Causes skin irritation.
STOT SE	category 3	H336: May cause drowsiness or dizziness.
Aquatic Acute	category 1	H400: Very toxic to aquatic life.
Aquatic Chronic	category 1	H410: Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

ėn
-034-en

http://www.big.be © BIG vzw Reason for revision: 3; 9; 12

Revision number: 0900

16239-

878-2

P280 P304 + P340 P303 + P361 + P353 P331 P301 + P310 Wear protective gloves, protective clothing and eye protection/face protection.

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

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

Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

### 2.3. Other hazards

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

### <u>SECTION 3: Composition/information on ingredients</u>

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
heptane 01-2119457603-38	142-82-5 205-563-8	C≥90%	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	M: 1 (Acute, BIG)
1,8-diazabicyclo[5.4.0]undec-7-ene	6674-22-2 229-713-7	C<1%	Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318	(1)(10)	Constituent	

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

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

### SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

### After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

### After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

### After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms

After inhalation:
Dizziness. Drowsiness.

After skin contact:

Tingling/irritation of the skin.

After eye contact:

No effects known.

After ingestion:

Risk of aspiration pneumonia.

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:

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BIG number: 37763

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (not alcohol-resistant).

### 5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion. Major fire: Water; risk of puddle expansion.

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

Upon combustion: CO and CO2 are formed.

### 5.3. Advice for firefighters

### 5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Do not move the load if exposed to heat. 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 (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: selfcontained breathing apparatus (EN 136 + EN 137).

### SECTION 6: Accidental release measures

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

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

### 6.1.1 Protective equipment for non-emergency personnel

See section 8.2

### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing (EN 14605 or EN 13034). Suitable protective clothing

See section 8.2

### 6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Try to reduce evaporation. Prevent soil and water pollution. Prevent spreading in sewers.

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

Take up liquid spill into inert 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 section 13.

### SECTION 7: Handling and storage

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

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Insufficient ventilation: keep naked flames/sparks away. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Do not discharge the waste into the drain. Keep container tightly closed.

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

### 7.2.1 Safe storage requirements:

Meet the legal requirements. Store in a cool area. Keep container in a well-ventilated place. Fireproof storeroom. Keep only in the original container.

### 7.2.2 Keep away from:

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

### 7.2.3 Suitable packaging material:

No data available

### 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		
n-Heptane	Time-weighted average exposure limit 8 h (Indicative occupational	500 ppm
	exposure limit value)	

Reason for revision: 3; 9; 12

n-Heptane			sure limit 8 h (Indicative occupational	2085 mg/n	
		exposure limit value)		<u> </u>	
Belgium		<b>-</b>		400 ppm	
n-Heptane		Time-weighted average exposure limit 8 h Time-weighted average exposure limit 8 h			
		Short time value		1664 mg/r 500 ppm	
		Short time value		2085 mg/r	
				2005 mg/1	
The Netherlands n-Heptaan		Time-weighted average expos limit value)	sure limit 8 h (Public occupational exposure	288 ppm	
		· · · · · ·	sure limit 8 h (Public occupational exposure	1200 mg/r	
		Short time value (Public occup	pational exposure limit value)	384 ppm	
		Short time value (Public occup		1600 mg/r	
France				•	
France n-Heptane			sure limit 8 h (VRC: Valeur réglementaire	400 ppm	
			sure limit 8 h (VRC: Valeur réglementaire	1668 mg/r	
		contraignante) Short time value (VRC: Valeur	réglementaire contraignante)	500 ppm	
			réglementaire contraignante)	2085 mg/r	
				2000	
Germany		L	<i>.</i> .	1	
Heptan (alle Isomeren)		Time-weighted average expos	· · ·	500 ppm	
L		Time-weighted average expos	sure limit 8 h (TRGS 900)	2100 mg/r	
Austria					
Heptan (alle Isomeren): n-Heptan2, 2,3-Dimethylpentan 2,4-Dimethylpe Dimethylpentan 3-Ethylpentan2-Me Methylhexan2,2,3-Trimethylbutan Is	ntan 3,3- thylhexan 3-	Tagesmittelwert (MAK)			
		Tagesmittelwert (MAK)		2000 mg/ı	
		Kurzzeitwert 15(Miw) 4x (MAK)			
		Kurzzeitwert 15(Miw) 4x (MAK)			
<u></u>					
UK n-Heptane		(EH40/2005))	sure limit 8 h (Workplace exposure limit	500 ppm	
		(EH40/2005))	sure limit 8 h (Workplace exposure limit sure limit 8 h (Workplace exposure limit		
		(EH40/2005)) Time-weighted average expos	· · · ·		
n-Heptane		(EH40/2005)) Time-weighted average expos (EH40/2005))	· · · ·		
n-Heptane USA (TLV-ACGIH)		(EH40/2005)) Time-weighted average expos (EH40/2005))	sure limit 8 h (Workplace exposure limit sure limit 8 h (TLV - Adopted Value)	2085 mg/r	
n-Heptane USA (TLV-ACGIH)	le these will be listed b	(EH40/2005)) Time-weighted average expos (EH40/2005)) Time-weighted average expos Short time value (TLV - Adopted)	sure limit 8 h (Workplace exposure limit sure limit 8 h (TLV - Adopted Value)	2085 mg/r	
n-Heptane USA (TLV-ACGIH) Heptane, isomers b) National biological limit values If limit values are applicable and availab Germany	-	(EH40/2005)) Time-weighted average expos (EH40/2005)) Time-weighted average expos Short time value (TLV - Adopte elow.	sure limit 8 h (Workplace exposure limit sure limit 8 h (TLV - Adopted Value) ed Value)	2085 mg/r	
n-Heptane USA (TLV-ACGIH) Heptane, isomers b) National biological limit values If limit values are applicable and availab Germany n-Heptan (Heptan-2,5-dion)	le these will be listed b Urin: expositionsend	(EH40/2005)) Time-weighted average expos (EH40/2005)) Time-weighted average expos Short time value (TLV - Adopte elow.	sure limit 8 h (Workplace exposure limit sure limit 8 h (TLV - Adopted Value)	2085 mg/r	
n-Heptane USA (TLV-ACGIH) Heptane, isomers b) National biological limit values If limit values are applicable and availab Germany n-Heptan (Heptan-2,5-dion) .2 Sampling methods	-	(EH40/2005)) Time-weighted average expos (EH40/2005)) Time-weighted average expos Short time value (TLV - Adopte elow.	sure limit 8 h (Workplace exposure limit sure limit 8 h (TLV - Adopted Value) ed Value)	2085 mg/r 400 ppm	
n-Heptane USA (TLV-ACGIH) Heptane, isomers b) National biological limit values If limit values are applicable and availab Germany n-Heptan (Heptan-2,5-dion) .2 Sampling methods Product name	Urin: expositionsend	(EH40/2005)) Time-weighted average expos (EH40/2005)) Time-weighted average expos Short time value (TLV - Adopte elow. le, bzw. schichtende Test	sure limit 8 h (Workplace exposure limit sure limit 8 h (TLV - Adopted Value) ed Value) 250 µg/l	2085 mg/r 400 ppm	
n-Heptane USA (TLV-ACGIH) Heptane, isomers b) National biological limit values If limit values are applicable and availab Germany n-Heptan (Heptan-2,5-dion) .2 Sampling methods Product name n-Heptane (Hydrocarbons, BP 26 to 126	Urin: expositionsend	(EH40/2005)) Time-weighted average expos (EH40/2005)) Time-weighted average expos Short time value (TLV - Adopte elow.	sure limit 8 h (Workplace exposure limit sure limit 8 h (TLV - Adopted Value) ed Value) 250 µg/l Number 1500	2085 mg/r 400 ppm	
n-Heptane USA (TLV-ACGIH) Heptane, isomers b) National biological limit values If limit values are applicable and availab Germany n-Heptan (Heptan-2,5-dion) .2 Sampling methods Product name	Urin: expositionsend	(EH40/2005)) Time-weighted average expos (EH40/2005)) Time-weighted average expos Short time value (TLV - Adopted elow. le, bzw. schichtende Test NIOSH	sure limit 8 h (Workplace exposure limit sure limit 8 h (TLV - Adopted Value) ed Value) 250 µg/l	2085 mg/r	
n-Heptane USA (TLV-ACGIH) Heptane, isomers b) National biological limit values If limit values are applicable and availab Germany n-Heptan (Heptan-2,5-dion) .2 Sampling methods Product name n-Heptane (Hydrocarbons, BP 26 to 126 n-Heptane (Volatile Organic compounds)	Urin: expositionsend C) :) e substance or mixture	(EH40/2005)) Time-weighted average expos (EH40/2005)) Time-weighted average expos Short time value (TLV - Adopted elow. le, bzw. schichtende Test NIOSH NIOSH OSHA e as intended	sure limit 8 h (Workplace exposure limit sure limit 8 h (TLV - Adopted Value) ed Value) 250 µg/l Number 1500 2549	2085 mg/r 400 ppm	
n-Heptane USA (TLV-ACGIH) Heptane, isomers b) National biological limit values If limit values are applicable and availab Germany n-Heptan (Heptan-2,5-dion) .2 Sampling methods Product name n-Heptane (Hydrocarbons, BP 26 to 126 n-Heptane (Volatile Organic compounds n-Heptane .3 Applicable limit values when using th If limit values are applicable and av .4 Threshold values	Urin: expositionsend C) :) e substance or mixture	(EH40/2005)) Time-weighted average expos (EH40/2005)) Time-weighted average expos Short time value (TLV - Adopted elow. le, bzw. schichtende Test NIOSH NIOSH OSHA e as intended	sure limit 8 h (Workplace exposure limit sure limit 8 h (TLV - Adopted Value) ed Value) 250 µg/l Number 1500 2549	2085 mg/r 400 ppm	
n-Heptane USA (TLV-ACGIH) Heptane, isomers b) National biological limit values If limit values are applicable and availab Germany n-Heptan (Heptan-2,5-dion) .2 Sampling methods Product name n-Heptane (Hydrocarbons, BP 26 to 126 n-Heptane (Volatile Organic compounds n-Heptane .3 Applicable limit values when using th If limit values are applicable and av .4 Threshold values DNEL/DMEL - Workers	Urin: expositionsend C) :) e substance or mixture	(EH40/2005)) Time-weighted average expos (EH40/2005)) Time-weighted average expos Short time value (TLV - Adopted elow. le, bzw. schichtende Test NIOSH NIOSH OSHA e as intended	sure limit 8 h (Workplace exposure limit sure limit 8 h (TLV - Adopted Value) ed Value) 250 µg/l Number 1500 2549 7	2085 mg/n 400 ppm	

neptane	_		
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	2085 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	300 mg/kg bw/day	
,8-diazabicyclo[5.4.0]undec-7-en	<u>ne</u>		
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	10.6 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	3 mg/kg bw/day	
DNEL/DMEL - General population	1	•	
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	447 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	149 mg/kg bw/day	
	Long-term systemic effects oral	149 mg/kg bw/day	
,8-diazabicyclo[5.4.0]undec-7-en	<u>ie</u>	•	·
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	2.6 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	1.5 mg/kg bw/day	
	Long-term systemic effects oral	1.5 mg/m <sup>3</sup>	
MEC ,8-diazabicyclo[5.4.0]undec-7-en			
Compartments	Value	Remark	

Compartments	Value	Remark
Fresh water	0.24 mg/l	
Marine water	0.024 mg/l	
Fresh water (intermittent releases)	0.5 mg/l	
STP	13 mg/l	
Fresh water sediment	1.46 mg/kg sediment dw	
Marine water sediment	0.146 mg/kg sediment dw	
Soil	0.152 mg/kg soil dw	

#### 8.1.5 Control banding

If applicable and available it will be listed below.

### 8.2. Exposure controls

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

#### 8.2.1 Appropriate engineering controls

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

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

Observe normal hygiene standards. Do not eat, drink or smoke during work.

### a) Respiratory protection:

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

#### b) Hand protection:

Protective gloves against chemicals (EN 374).

	Measured breakthrough time	Thickness	Protection index	Remark
nitrile rubber	> 480 minutes	≥ 0.4 mm	Class 6	

c) Eye protection:

Protective goggles (EN 166).

### d) Skin protection:

Head/neck protection. Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical form	Liquid
Odour	Characteristic odour
Odour threshold	No data available in the literature
Colour	Colourless
Translucency	Clear
Particle size	Not applicable (liquid)
Explosion limits	0.6 - 7.0 vol %
Flammability	Highly flammable liquid and vapour.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available in the literature
Kinematic viscosity	No data available in the literature

Reason for revision: 3; 9; 12

Melting point	No data available in the literature
Boiling point	83 °C - 105 °C
Relative vapour density	No data available in the literature
Vapour pressure	No data available in the literature
Solubility	Water ; insoluble
Relative density	0.71
Absolute density	713 kg/m³
Decomposition temperature	No data available in the literature
Auto-ignition temperature	> 200 °C
Flash point	-5 °C
рН	Not applicable (non-soluble in water)

### 9.2. Other information

No data available

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

### Precautionary measures

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

### 10.5. Incompatible materials

Oxidizing agents, (strong) acids.

### 10.6. Hazardous decomposition products

Upon combustion: CO and CO2 are formed.

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Test results

### Acute toxicity

### SILFIX PRIMER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

### heptane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 401	> 5000 mg/kg bw		Rat (male / female)	Read-across	
Dermal	LD50	Equivalent to OECD 402	> 2000 mg/kg bw	- · · ·	Rabbit (male / female)	Read-across	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 29.29 mg/l air		Rat (male / female)	Experimental value	

1,8-diazabicyclo[5.4.0]undec-7-ene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 401	215 mg/kg bw - 681 mg/kg bw		Rat (male / female)	Experimental value	
Dermal						Data waiving	
Inhalation						Data waiving	

### Conclusion

Not classified for acute toxicity

### Corrosion/irritation

SILFIX PRIMER

No (test)data on the mixture available

Classification is based on the relevant ingredients

Reason for revision: 3; 9; 12

Publication date: 2002-11-21 Date of revision: 2022-07-14

Revision number: 0900

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Еуе	Not irritating	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Read-across	Single treatmen with rinsing
Skin	Irritating	Equivalent to OECD 404	24 h	72 hours	Rabbit	Read-across	
3-diazabicyclo[5.4.0]	undec-7-ene	•		•			
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye						Data waiving	
Еуе	Serious eye damage; category 1					Literature study	
Not applicable (in vitro test)	Corrosive	In vitro skin irritation/corrosio n	> 4 h			Experimental value	

### **Conclusion**

Causes skin irritation.

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

### SILFIX PRIMER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>heptane</u>

Route of exposure	Result	Method	•	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406			Guinea pig (male / female)	Read-across	
,8-diazabicyclo[5.4.0	Jundec-7-ene	•			•		
Route of exposure	Result	Method	Exposure time	Observation time	Species	Value determination	Remark
				point			
Skin						Data waiving	

### Conclusion

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

### Specific target organ toxicity

### SILFIX PRIMER

No (test)data on the mixture available

Classification is based on the relevant ingredients

#### <u>heptane</u>

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
								determination
Inhalation	NOAEC	Subchronic	12470 mg/m <sup>3</sup>	Central	No effect	16 weeks (daily)	Rat (male)	Experimental
(vapours)		toxicity test	air	nervous				value
				system				
Inhalation	NOAEC	Subchronic	12470 mg/m <sup>3</sup>		No adverse	16 weeks (daily)	Rat (male)	Experimental
(vapours)	systemic	toxicity test	air		systemic			value
	effects				effects			
8-diazabicyclo[5.4.0]u	ndec-7-ene	•			•		•	

	Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
									determination
	Oral (stomach	Dose level	OECD 408	120 mg/kg		No effect	90 day(s)	Rat (male /	Experimental
	tube)			bw/day				female)	value
-									

**Conclusion** 

May cause drowsiness or dizziness. Not classified for subchronic toxicity

### Mutagenicity (in vitro)

### SILFIX PRIMER

No (test)data on the mixture available Judgement is based on the relevant ingredients

Reason for revision: 3; 9; 12

eptane									
Result	Method	Test substrate	Effect	Value determination	Remark				
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S. typhimurium and E. coli)	No effect	Experimental value					
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 473	Rat liver cells	No effect	Experimental value					
8-diazabicyclo[5.4.0]undec-7	1								
Result	Method	Test substrate	Effect	Value determination	Remark				
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value					
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S. typhimurium and E. coli)	No effect	Experimental value					

### Mutagenicity (in vivo)

### SILFIX PRIMER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

**Conclusion** 

Not classified for mutagenic or genotoxic toxicity

#### Carcinogenicity

#### SILFIX PRIMER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>heptane</u>

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
exposure								
Unknown								Data waiving

### **Conclusion**

Not classified for carcinogenicity

### **Reproductive toxicity**

#### SILFIX PRIMER

No (test)data on the mixture available

Judgement is based on the relevant ingredients <u>heptane</u>

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Inhalation (vapours))	NOAEL	Equivalent to OECD 414	10560 mg/m³ air	10 days (6h / day)	Mouse	No effect	Foetus	Read-across
	LOAEL	Equivalent to OECD 414	31680 mg/m <sup>3</sup> air	10 days (6h / day)	Mouse	Minor skeletal variations	Foetus	Read-across
Maternal toxicity (Inhalation (vapours))	NOAEL	Equivalent to OECD 414	3168 mg/m <sup>3</sup> air	10 days (6h / day)	Mouse	No effect		Read-across
	LOAEL	Equivalent to OECD 414	10560 mg/m <sup>3</sup> air	10 days (6h / day)	Mouse	Maternal toxicity		Read-across
Effects on fertility (Inhalation (vapours))	NOAEL	Equivalent to OECD 416	31680 mg/m <sup>3</sup> air		Rat (male / female)	No effect		Read-across
diazabicyclo[5.4.0]undec	-7-ene						_	
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	150 mg/kg bw/day	14 day(s)	Rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	150 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL	OECD 422	150 mg/kg bw/day	29 day(s) - 57 day (s)	Rat (male / female)	No effect		Experimental value

### **Conclusion**

Not classified for reprotoxic or developmental toxicity

### Aspiration hazard

Reason for revision: 3; 9; 12

Publication date: 2002-11-21 Date of revision: 2022-07-14

Revision number: 0900

BIG number: 37763

Classification is based on the relevant ingredients May be fatal if swallowed and enters airways.

### Toxicity other effects

SILFIX PRIMER

No (test)data on the mixture available

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

SILFIX PRIMER

No effects known.

### 11.2. Information on other hazards

No evidence of endocrine disrupting properties

## SECTION 12: Ecological information

### 12.1. Toxicity

### SILFIX PRIMER

No (test)data on the mixture available

Classification is based on the relevant ingredients

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50		5.738 mg/l	96 h	Oncorhynchus mykiss		Fresh water	QSAR; Nominal concentration
Acute toxicity crustacea	LC50		0.2 mg/l	96 h	Chaetogammaru s marinus	Semi-static system	Salt water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	EC50		4.338 mg/l	72 h	Pseudokirchneri ella subcapitata		Fresh water	QSAR; Biomass
Long-term toxicity fish	NOELR		1.284 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR; Growth rate
Toxicity aquatic micro- organisms	EL50		22.6 mg/l	48 h	Tetrahymena pyriformis		Fresh water	QSAR; Growth
8-diazabicyclo[5.4.0]undec-7-	ene							
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	DIN 38412- 15	146.6 mg/l	96 h	Leuciscus idus	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	EU Method	50 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	EU Method	> 100 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP
	EC10	EU Method	> 100 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic crustacea	NOEC	OECD 211	≥ 12 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro- organisms	EC20	ISO 8192	650 mg/l	30 minutes	Activated sludge	Static system	Fresh water	Experimental value; Nominal concentration

#### Conclusion

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

heptane Biodogr

nep	tune									
Bi	Biodegradation water									
	Method	Value	Duration	Value determination						
		70 %; Oxygen consumption	10 day(s)	Experimental value						
P	hototransformation air (DT50 air)									
	Method Value Conc. OH-radicals Value determination									
	SRC AOP v1.92	18.68 h	1.5E6 /cm <sup>3</sup>	Calculated value						

#### <u>1,8-diazabicyclo[5.4.0]undec-7-ene</u> Biodegradation water

D										
	Method	Value	Duration	Value determination						
	OECD 301C	1 %; Oxygen consumption	4 week(s)	Experimental value						

Reason for revision: 3; 9; 12

### **Conclusion**

Water

Contains non readily biodegradable component(s)

### 12.3. Bioaccumulative potential

SILFIX PRIMER

### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

<u>heptane</u>

#### BCF other aquatic organisms

zei einei aquat											
Parameter Method			Value	Duration Species			Value determination				
BCF BCFBAF v3.0		.00	552				Calculated value				
Log Kow											
Method		Remark		Value		Temperature	Value determination				
				4.5							

1,8-diazabicyclo[5.4.0]undec-7-ene

### BCF fishes

[	Parameter	Method		Value	Duration	Species		Value determination
	BCF	OECD 305		< 3.6	6 week(s)	Cyprinus	carpio	Experimental value
Lo	og Kow							
[	Method		Remark		Value		Temperature	Value determination
[	Equivalent to OECD	107			-0.43		25 °C	Experimental value

### **Conclusion**

Contains bioaccumulative component(s)

### 12.4. Mobility in soil

#### <u>heptane</u>

Parameter			N	1ethod		Value		Value determination
log Koc			S	RC PCKOCWIN v2.0		2.38		Calculated value
ercent distributio	n							
Method	Fraction air	Fraction biota	Fraction	Fraction soil	Fraction	water	Value determ	ination
			sediment					
Mackay level III	79 %	0 %	10 %	3.8 %	7.8 %		Calculated val	ue

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc		1.4	Calculated value

### **Conclusion**

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

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

### 12.7. Other adverse effects

SILFIX PRIMER

### Greenhouse gases

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)

### Groundwater

Groundwater pollutant

<u>heptane</u> Groundwater Groundwater pollutant

1,8-diazabicyclo[5.4.0]undec-7-ene

Groundwater

Groundwater pollutant Water ecotoxicity pH

pH shift

Reason for revision: 3; 9; 12

### 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).

07 01 04\* (wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals: other organic solvents, washing liquids and mother liquors). 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. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

#### 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	1206
14.2. UN proper shipping name	
Proper shipping name	heptanes
14.3. Transport hazard class(es)	
Hazard identification number	33
Class	3
Classification code	F1
14.4. Packing group	
Packing group	II
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	
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. <u>1. UN number</u>	
UN number	1206
14.2. UN proper shipping name	
Proper shipping name	heptanes
14.3. Transport hazard class(es)	
Hazard identification number	33
Class	3
Classification code	F1
4.4. Packing group	
Packing group	II
Labels	3
4.5. Environmental hazards	
Environmentally hazardous substance mark	yes
4.6. Special precautions for user	
Special provisions	
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

### Inland waterways (ADN)

14. <u>1. UN number</u>		
UN number	1206	
14.2. UN proper shipping name		
Proper shipping name	heptanes	
14.3. Transport hazard class(es)		
Class	3	
Classification code	F1	
14.4. Packing group		

Reason for revision: 3; 9; 12

Packing group	Ш
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
	liquids. A package shall not weigh more than 30 kg. (gross mass)

### Sea (IMDG/IMSBC)

14. <u>1</u> . UN number	
UN number	1206
14.2. UN proper shipping name	
Proper shipping name	heptanes
14.3. Transport hazard class(es)	
Class	3
14.4. Packing group	
Packing group	11
Labels	3
14.5. Environmental hazards	
Marine pollutant	Р
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
14.7. Maritime transport in bulk according to IMO instruments	
Annex II of MARPOL 73/78	Not applicable, based on available data
Air (ICAO-TI/IATA-DGR)	
14. <u>1. UN number</u>	
UN number	1206
14.2. UN proper shipping name	
Proper shipping name	heptanes
14.3. Transport hazard class(es)	
Class	3
14. <u>4. Packing group</u>	
Packing group	11
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	
Descence and source two sourcest	

### **SECTION 15: Regulatory information**

Limited quantities: maximum net quantity per packaging

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture <u>European legislation:</u>

VOC content Directive 2010/75/EU

Passenger and cargo transport

VOC content	Remark
97 %	
690 g/l	

1 L

Directive 2012/18/EU (Seveso III)

Substance or category	Special circumstances	Low tier (tonnes)	Top tier (tonnes)	Group	For this substance or mixture the summation rule has to be applied for:
P5b FLAMMABLE LIQUIDS	Particular processing conditions, such as high pressure or high temperature, may create major- accident hazards	50	200	None	Flammability
P5a FLAMMABLE LIQUIDS	Maintained at a temperature above the boiling point	10	50	None	Flammability
Threshold values under normal	circumstances				
Substance or category		Low tier (tonnes)	Top tier (tonnes)	Group	For this substance or mixture the summation rule has to be applied for:

Reason for revision: 3; 9; 12

SILFIX	PRIM	ER			
E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1	100	200	None	Eco-toxicity	
P5c FLAMMABLE LIQUIDS	5000	50000	None	Flammability	

### **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	Conditions of restriction
	substances or of the mixture	
heptane 1,8-diazabicyclo[5.4.0]undec-7-ene	Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	<ol> <li>Shall not be used in:         <ul> <li>ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,</li> <li>tricks and jokes,</li> <li>games for one or more participants, or any article intended to be used as such, even ornamental aspects,</li> </ul> </li> <li>Articles not complying with paragraph 1 shall not be placed on the market.</li> <li>Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:             <ul></ul></li></ol>
heptane	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	<ol> <li>Shall not be used, as substance or as mixtures in aerosol dispensers where these aerodispensers are intended for supply to the general public for entertainment and decoration purposes such as the following:         <ul> <li>metallic glitter intended mainly for decoration,</li> <li>artificial snow and frost,</li> <li>"whoopee" cushions,</li> <li>silly string aerosols,</li> <li>mitation excrement,</li> <li>horns for parties,</li> <li>decorative flakes and foams,</li> <li>artificial cobwebs,</li> <li>stink bombs.</li> </ul> </li> <li>Without prejudice to the application of other Community provisions on the classificat 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, leg and indelibly with:         <ul> <li>"For professional users only".</li> <li>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.</li> </ul> </li> </ol>
		market unless they conform to the requirements indicated.
heptane	Substances falling within one or more of the following points: (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008: — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation — skin sensitiser category 1, 1A or 1B — skin corrosive category 1, 1A or 1B — skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2 — serious eye damage category 1 or eye irritant category 2 (b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council (c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the	Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2
son for revision: 3; 9; 12	<ul> <li>following points: <ul> <li>(a) substances classified as any of the</li> <li>following in Part 3 of Annex VI to Regulation</li> <li>(EC) No 1272/2008:</li> <li>carcinogen category 1A, 1B or 2, or germ</li> <li>cell mutagen category 1A, 1B or</li> <li>2, but excluding any such substances classified</li> <li>due to effects only following</li> <li>exposure by inhalation</li> <li>reproductive toxicant category 1A, 1B or 2</li> <li>but excluding any such substances classified</li> <li>due to effects only following exposure by</li> <li>inhalation</li> <li>skin sensitiser category 1, 1A or 1B</li> <li>skin corrosive category 1, 1A, 1B or 1C or</li> <li>skin irritant category 2</li> <li>serious eye damage category 1 or eye</li> <li>irritant category 2</li> <li>(b) substances listed in Annex II to Regulation</li> <li>(EC) No 1223/2009 of the European</li> <li>Parliament and of the Council</li> <li>(c) substances listed in Annex IV to Regulation</li> </ul> </li> </ul>	Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2

	columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this
	Annex.
	The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all
	mixtures for use for tattooing purposes,
	whether or not they contain a substance falling within points (a) to (d) of this column of
	this entry.
National legislation Be SILFIX PRIMER	lgium
No data available	
National legislation Th	
SILFIX PRIMER	
Waterbezwaarlijk	kheid A (1); Algemene Beoordelingsmethodiek (ABM)
National legislation Fra SILFIX PRIMER	ance
No data available	
National legislation Ge SILFIX PRIMER	<u>ermany</u>
Lagerklasse (TRG	S510) 3: Entzündbare Flüssigkeiten
WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
heptane TA-Luft	5.2.5/I
1,8-diazabicyclo[5.4	
TA-Luft	5.2.5/I
National legislation Au	
SILFIX PRIMER	
No data available	2
National legislation Ur SILFIX PRIMER	nited Kingdom
No data available	5
No data available	2
No data available Other relevant data SILFIX PRIMER	
No data available Other relevant data SILFIX PRIMER No data available	e
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No data available <u>Other relevant data</u> <u>SILFIX PRIMER</u> No data available 5.2. Chemical safety	e <b>y assessment</b> rassessment has been conducted for the mixture.
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No data available <u>Other relevant data</u> <u>SILFIX PRIMER</u> No data available <b>5.2. Chemical safety</b> No chemical safety <b>TION 16: Othe</b> <b>Full text of any H- and</b> H225 Highly flamr	e <b>y assessment</b> <i>y</i> assessment has been conducted for the mixture. <b>r information</b> <b>EUH-statements referred to under section 3:</b> mable liquid and vapour.
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No data available <u>Other relevant data</u> <u>SILFIX PRIMER</u> No data available <b>5.2. Chemical safety</b> No chemical safety <b>ION 16: Othe</b> <b>Full text of any H- and</b> H225 Highly flamm H301 Toxic if swal H304 May be fata	e <b>y assessment</b> <i>y</i> assessment has been conducted for the mixture. <b>r information</b> <b>EUH-statements referred to under section 3:</b> mable liquid and vapour. Ilowed. Il if swallowed and enters airways. are skin burns and eye damage.
No data available Other relevant data SILFIX PRIMER No data available S.2. Chemical safety No chemical safety TION 16: Othe Full text of any H- and H225 Highly flamm H301 Toxic if swal H304 May be fata H314 Causes seve	e <b>y assessment</b> <b>r assessment</b> has been conducted for the mixture. <b>r information</b> <b>EUH-statements referred to under section 3:</b> mable liquid and vapour. Ilowed. Il if swallowed and enters airways. are skin burns and eye damage. irritation.
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No data available Other relevant data SILFIX PRIMER No data available 5.2. Chemical safety No chemical safety No chemical safety TON 16: Othe Full text of any H- and H225 Highly flamr H301 Toxic if swal H304 May be fata H314 Causes seve H315 Causes skin H318 Causes seric H306 May cause of H400 Very toxic to	e <b>y assessment</b> r assessment has been conducted for the mixture. <b>r information</b> <b>EUH-statements referred to under section 3:</b> mable liquid and vapour. llowed. li f swallowed and enters airways. tre skin burns and eye damage. irritation. bus eye damage. drowsiness or dizziness.
No data available Other relevant data SILFIX PRIMER No data available Other relevant data SILFIX PRIMER No data available Other of a available Comparison of the state	e <b>y assessment</b> r assessment has been conducted for the mixture. <b>r information</b> <b>EUH-statements referred to under section 3:</b> mable liquid and vapour. Howed. Il if swallowed and enters airways. ere skin burns and eye damage. irritation. bus eye damage. drowsiness or dizziness. o aquatic life. o aquatic life with long lasting effects.
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