SAFETY DATA SHEET



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

CLEAR LUBE S

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

1.1. Product identifier

Product name: CLEAR LUBE SRegistration number REACH: Not applicable (mixture)Product type REACH: Mixture

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

1.2.1 Relevant identified uses Lubricant

1.2.2 Uses advised against

No uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Manufacturer of the product

Novatech International N.V. Industrielaan 5B B-2250 Olen ☎ +32 14 85 97 37 ➡ +32 14 85 97 38 info@tec7.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	Class Category Hazard statements						
Aerosol	category 1	H222: Extremely flammable aerosol.					
Aerosol	category 1	229: Pressurised container: May burst if heated.					
Aquatic Chronic	category 3	H412: Harmful to aquatic life with long lasting effects.					

2.2. Label elements

2.3.

Signal word	Danger
H-statements	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H412	Harmful to aquatic life with long lasting effects.
P-statements	
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.
P273	Avoid release to the environment.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be © BIG vzw Reason for revision: 3 Revision number: 0405

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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
n-hexane	110-54-3 203-777-6	C<5 %	Flam. Liq. 2; H225 Repr. 2; H361f Asp. Tox. 1; H304 STOT RE 2; H373 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(19)(1)(2)(8)(10)	Constituent
hydrocarbons, C6, isoalkanes, <5% n-hexane 01-2119484651-34		C<5 %	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(19)(1)(10)	Constituent
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 01-2119475515-33		5% <c<15%< td=""><td>Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411</td><td>(19)(1)(10)</td><td>Constituent</td></c<15%<>	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(19)(1)(10)	Constituent
propane 01-2119486944-21	74-98-6 200-827-9	15% <c<30%< td=""><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280</td><td>(1)(2)(10)</td><td>Propellant</td></c<30%<>	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
butane 01-2119474691-32	106-97-8 203-448-7	C>30 %	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant

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

(2) Substance with a Community workplace exposure limit

(8) Specific concentration limits, see heading 16

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

(19) The total concentration of corrosive and irritant substances is lower than that of the classification criterion

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, seek medical advice.

After inhalation:

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

After skin contact:

Rinse with water. 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. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:
No effects known.

After skin contact:

No effects known.

After eye contact:

No effects known.

After ingestion:

No effects known.

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.

Reason for revision: 3

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:**

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

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistant risk of physical explosion. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. **6.1.1 Protective equipment for non-emergency personnel**

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing. Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Dam up the liquid spill.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

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

7.1. Precautions for safe handling

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Protect against frost. Keep out of direct sunlight. Ventilation at floor level. Fireproof storeroom. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

Aerosol.

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

EU

Reason for revision: 3

	L		AR LUBE S			
n-Hexane		exp	e-weighted average exp osure limit value)	•		20 ppm
			e-weighted average exp osure limit value)	osure limit 8 h (Indic	cative occupational	72 mg/m ³
Belgium						
Hydrocarbures aliphatiques sous forme ga	zeuse: (Alcanes C1-	Tim	e-weighted average exp	osure limit 8 h		1000 ppm
C3)		Sho	rt time value			980 ppm
		Sho	ort time value			2370 mg/ı
n-Hexane		Tim	a weighted average even	ocuro limit 9 h		20 ppm
I-nexalle			e-weighted average exp e-weighted average exp			72 mg/m ³
The Netherlands		-				0,
n-Hexaan		Tim	e-weighted average exp	osure limit 8 h (Publ	ic occupational exposure	e 20 ppm
			t value)			
			e-weighted average exp t value)	osure limit 8 h (Publ	ic occupational exposure	e /2 mg/m ³
		Sho	rt time value (Public occ	upational exposure	limit value)	40 ppm
		Sho	rt time value (Public occ	upational exposure	limit value)	144 mg/m
France						
n-Butane			e-weighted average exp	osure limit 8 h (VL: \	/aleur non	800 ppm
		Tim	lementaire indicative) e-weighted average exp lementaire indicative)	osure limit 8 h (VL: \	/aleur non	1900 mg/
n-Hexane		- ×	lementaire indicative) e-weighted average exp	osure limit 8 h (VRC:	: Valeur réglementaire	20 ppm
			traignante)		Valour réalemente in	72
			e-weighted average exp traignante)	osure limit & h (VRC:	. valeur regiementaire	72 mg/m ³
Germany						
Butan		Tim	e-weighted average exp	osure limit 8 h (TRG	S 900)	1000 ppm
		_	e-weighted average exp		,	2400 mg/
n-Hexan		Time-weighted average exposure limit 8 h (TRGS 900) Time-weighted average exposure limit 8 h (TRGS 900)			50 ppm	
Propan					180 mg/m 1000 ppm	
горан			e-weighted average exp			1800 mg/
· · · ·		-			,	0,
UK		T :			I	600
Butane			e-weighted average exp 40/2005))	osure limit 8 n (wor	kplace exposure limit	600 ppm
		Tim	e-weighted average exp	osure limit 8 h (Wor	kplace exposure limit	1450 mg/
		-	40/2005)) ort time value (Workplace	exposure limit (FH	40/2005))	750 ppm
			ort time value (Workplace			1810 mg/
n-Hexane		Tim	e-weighted average exp			20 ppm
		(EH40/2005)) Time-weighted average exposure limit 8 h (Workplace exposure limit			72 mg/m ³	
			40/2005))		, exposure mint	
USA (TLV-ACGIH)						
Butane, all isomers			ort time value (TLV - Ado	1		1000 ppm
n-Hexane		Tim	e-weighted average exp	osure limit 8 h (TLV	- Adopted Value)	50 ppm
b) National biological limit values If limit values are applicable and available	these will be listed b	elow				
Germany			w cohichtanda	E ma/l	E /2012 Star C	atckon
Hexan (n-Hexan) (2,5-Hexandion plus 4,5-Dihydroxy-2-Hexanon (nach Hydrolyse))	Urin: expositionsend	ie, DZ	w. schichtende	5 mg/l	5/2013 Ständige Ser Prüfung gesundheits Arbeitsstoffe der DF	schädliche
USA (BEI-ACGIH)						
n-Hexane (2,5-Hexanedion)	Urine: end of shift			0,5 mg/L		
1.2 Sampling methods						
Product name			Test	Number		
n-Hexane (Hydrocarbons, BP36 to 126C)		_	NIOSH	1500		
n-Hexane (organic and inorganic gases by n-Hexane (Volatile Organic compounds)	Extractive FIIR)		NIOSH	3800 2549		
		_	NIOSH OSHA	2549		
				²²⁴⁰		
n-Hexane			OSHA	7		
			OSHA	7 Publication date:	. 2007 07 24	

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values DNEL/DMEL - Workers

n-hexane	
II-IIE Adile	

<u>n-nexane</u>							
Effect level (DNEL/DMEL)	Туре	Value	Remark				
DNEL	Long-term systemic effects inhalation	75 mg/m³					
	Long-term systemic effects dermal	11 mg/kg bw/day					
hydrocarbons, C6, isoalkanes, < 5%	hydrocarbons, C6, isoalkanes, < 5% n-hexane						
Effect level (DNEL/DMEL)	Туре	Value	Remark				
DNEL	Long-term systemic effects inhalation	5306 mg/m³					
	Long-term systemic effects dermal	13964 mg/kg bw/day					
hydrocarbons, C7, n-alkanes, isoalka	nes, cyclics						
Effect level (DNEL/DMEL)	Туре	Value	Remark				
DNEL	Long-term systemic effects inhalation	2085 mg/m³					
	Long-term systemic effects dermal	300 mg/kg bw/day					

DNEL/DMEL - General population

<u>n-hexane</u>			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	16 mg/m³	
	Long-term systemic effects dermal	5.3 mg/kg bw/day	
	Long-term systemic effects oral	4 mg/kg bw/day	
hydrocarbons, C6, isoalkanes, < 5%	<u>n-hexane</u>		
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	1131 mg/m³	
	Long-term systemic effects dermal	1377 mg/kg bw/day	
	Long-term systemic effects oral	1301 mg/kg bw/day	
hydrocarbons, C7, n-alkanes, isoall	anes, cyclics		
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	447 mg/m³	
	Long-term systemic effects dermal	149 mg/kg bw/day	
	Long-term systemic effects oral	149 mg/kg bw/day	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

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

8.2.1 Appropriate engineering controls

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

8.2.2 Individual protection measures, such as personal protective equipment

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

a) Respiratory protection:

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

b) Hand protection:

Protective gloves against chemicals (EN374).

	Measured breakthrough time	Thickness	Protection index
nitrile rubber	> 480 minutes	0.35 mm	Class 6

- materials (good resistance)

Nitrile rubber.

c) Eye protection:

Safety glasses.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Aerosol
Characteristic odour
No data available
No data available on colour
Not applicable (gas)
1.1 - 9.5 vol %
Extremely flammable aerosol.
Not applicable (mixture)
1 mPa.s ; 20 °C ; Liquid

Reason for revision: 3

Kinematic viscosity	1 mm²/s ; 20 °C ; Liquid	
Melting point	No data available	
Boiling point	-140 °C - 95 °C ; Liquid	
Evaporation rate	7 ; Butyl acetate	
Relative vapour density	>1	
Vapour pressure	8530 hPa ; 20 °C	
Solubility	Water ; insoluble	
Relative density	0.85 ; 20 °C ; Liquid	
Decomposition temperature	No data available	
Auto-ignition temperature	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	
pH	No data available	

9.2. Other information

Absolute density

852 kg/m³ ; 20 °C ; Liquid

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. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Upon combustion: CO and CO2 are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

CLEAR LUBE S

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>n-hexane</u>

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	16000 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 3350 mg/kg bw	4 h	Rabbit (male)	Read-across	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 5000 ppm	24 h	Rat (male)	Experimental value	
drocarbons, C6, isoalka	anes, < 5% n-	hexane	•				
Doute of our course	D	Method	Value	Exposure time	Species	Value	Remark
Route of exposure	Parameter	Method	Value	Exposure time	opecies	determination	inciniaria.
Oral	LD50	Equivalent to OECD 401	> 16750 mg/kg bw	•	Rat (male)		
		Equivalent to OECD		•		determination	

Reason for revision: 3

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hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

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

Conclusion

Not classified for acute toxicity

Corrosion/irritation

CLEAR LUBE S

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>n-hexane</u>

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405		72 hours	Rabbit	Read-across	
Skin	Slightly irritating	Equivalent to OECD 404	24 h	24; 72 hours	Rabbit	Read-across	
Skin	Irritating; category 2					Annex VI	

ex VI is debatable as it does not corresp the conclusion from the test hydrocarbons, C6, isoalkanes, < 5% n-hexane

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405	72 h	72 hours	Rabbit	Read-across	
Skin	Moderately irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
drocarbons, C7, n-al	kanes, isoalkanes	, cyclics					
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating			7 days	Rabbit	Read-across	Single treatment
Skin	Irritating	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across	

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

CLEAR LUBE S

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Route of exposure	Result	Method		Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 429			Mouse	Read-across	
nydrocarbons, C6, iso	alkanes, < 5% n-he	exane					
Route of exposure	Result	Method		Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 429			Mouse (male / female)	Read-across	
ydrocarbons, C7, n-a	lkanes, isoalkanes	, cyclics					
Route of exposure	Result	Method		Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406		24; 48 hours	Guinea pig (male / female)	Read-across	
clusion		•	•	•	•	•	•

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

Specific target organ toxicity

CLEAR LUBE S

Reason for revision: 3

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>n-hexane</u>

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	Subchronic toxicity test	567 mg/kg bw/day - 1135 mg/kg bw/day		No effect	13 weeks (5 days / week)	Rat (male)	Experimental value
Oral (stomach tube)	LOAEL	Subchronic toxicity test	3956 mg/kg bw/day	Central nervous system	neurotoxic effects	17 weeks (5 days / week)	Rat (male)	Experimental value
Dermal								Data waiving
Inhalation (vapours)	LOAEC	Subchronic toxicity test	3000 ppm	Central nervous system	Impairment of the nervous system	16 weeks (daily)	Rat (male)	Experimental value
Inhalation (vapours)			STOT SE cat.3		Drowsiness, dizziness			Literature study

(vapours) hydrocarbons, C6, isoalkanes, < 5% n-hexane

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Dermal								Data waiving
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	10504 mg/m ³ air		No effect	13 weeks (6h / day, 5 days / week)	Rat (male)	Read-across
Inhalation (vapours)	LOAEC	Equivalent to OECD 413	31652 mg/m ³ air	Liver; kidney	Organ damage	13 weeks (6h / day, 5 days / week)	Rat (male)	Read-across

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	- -	Value determination
Inhalation (vapours)	NOAEL	Equivalent to OECD 413	12350 mg/m³ air			26 weeks (6h / day, 5 days / week)	Rat (male / female)	Read-across
Inhalation (vapours)	LOAEL	Equivalent to OECD 413	1650 mg/m³ air	Central nervous system		26 weeks (6h / day, 5 days / week)	Rat (male / female)	Read-across

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

CLEAR LUBE S

No (test)data on the mixture available

<u>n-hexane</u> Result Method Test substrate Effect Value determination Negative OECD 476 Mouse (lymphoma L5178Y No effect Experimental value cells) Equivalent to OECD 471 Experimental value Negative Bacteria (S.typhimurium) No effect hydrocarbons, C6, isoalkanes, < 5% n-hexane Result Method Test substrate Effect Value determination Equivalent to OECD 471 Negative with metabolic No effect Bacteria (S.typhimurium) Read-across activation, negative without metabolic activation hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Result Method Test substrate Effect Value determination Negative with metabolic **OECD 476** Human lymphocytes No effect Read-across activation, negative without metabolic activation

Mutagenicity (in vivo)

CLEAR LUBE S

No (test)data on the mixture available

Judgement is based on the relevant ingredients <u>n-hexane</u>

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative		8 weeks (6h / day, 5	Mouse (male)		Experimental value
		days / week)			
rocarbons, C6, isoalkanes, < 5% n-hexa	ane				
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 475	5 days (6h / day)	Rat (male / female)	Bone marrow	Experimental value

Conclusion

Not classified for mutagenic or genotoxic toxicity

Reason for revision: 3

Carcinogenicity

CLEAR LUBE S

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>n-hexane</u>

Rou	ite of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exp	osure								determination
Inh	alation	NOAEC	Equivalent to	3000 ppm	104 weeks (6h / day,	Mouse (female)	No carcinogenic		Read-across
(va	pours)		OECD 451		5 days / week)		effect		
Inha	alation	LOAEC	Equivalent to	9018 ppm	104 weeks (6h / day,	Mouse (female)	Tumor	Liver	Read-across
(va	pours)		OECD 451		5 days / week)		formation		
Inh	alation	NOAEC	Equivalent to	9018 ppm	104 weeks (6h / day,	Mouse (male)	No carcinogenic		Read-across
(va	pours)		OECD 451		5 days / week)		effect		
hydroca	arbons, C6,	isoalkanes, <	5% n-hexane						
Rou	ite of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exp	osure								determination
Inha	alation	NOAEC	Equivalent to	9016 ppm	104 weeks (6h / day,	Rat (male /	No carcinogenic		Experimental
(va	pours)		OECD 451		5 days / week)	female)	effect		value
hydroca	arbons, C7,	n-alkanes, iso	alkanes, cyclics						
Rou	ite of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exp	osure								determination
Inh	alation								Data waiving
Der	rmal								Data waiving
Ora	al								Data waiving

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

CLEAR LUBE S

No (test)data on the mixture available

Judgement is based on the relevant ingredients <u>n-hexane</u>

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

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test hydrocarbons, C6, isoalkanes, < 5% n-hexane

	Parameter	Method	Value	Exposure time	Species	Effect	- 0-	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	> 7000 ppm	10 days (6h / day)	Rat	No effect		Read-across
Maternal toxicity	NOAEC	Equivalent to OECD 414	2000 ppm	10 days (6h / day)	Rat (female)	No effect		Read-across
Effects on fertility	NOAEC	Equivalent to OECD 416	9000 ppm		Rat (male / female)	No effect		Read-across

rocarbons, C7, n-alkanes	, isoalkanes, cycl	ics						
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	31680 mg/m³ air	10 days (6h / day)	Mouse	No effect		Read-across
Maternal toxicity	NOAEL	Equivalent to OECD 414	10560 mg/m³ air	10 days (6h / day)	Rat (female)	No effect		Read-across
	LOAEL	Equivalent to OECD 414	31680 mg/m ³ air	10 days (6h / day)	Rat (female)	Lung tissue affection/degen eration	Lungs	Read-across
Effects on fertility	NOAEL (P/F1)	Equivalent to OECD 416	31680 mg/m ³ air		Rat (male / female)	No effect		Read-across

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

CLEAR LUBE S

No (test)data on the mixture available

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

Chronic effects from short and long-term exposure

CLEAR LUBE S

No effects known.

SECTION 12: Ecological information

12.1. Toxicity

CLEAR LUBE S

No (test)data on the mixture available

Classification is based on the relevant ingredients $\underline{n\text{-}hexane}$

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50		12.51 mg/l	96 h	Oncorhynchus mykiss		Fresh water	Estimated value; Nominal concentration
Acute toxicity crustacea	EL50		21.85 mg/l	48 h	Daphnia magna		Fresh water	Estimated value; Nominal concentration
Toxicity algae and other aquatic plants	EL50		9.285 mg/l	72 h	Pseudokirchneri ella subcapitata		Fresh water	Estimated value; Growth rate
Long-term toxicity fish	NOELR		2.8 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	Estimated value; Nominal concentration
Long-term toxicity aquatic crustacea	NOELR		4.888 mg/l	21 day(s)	Daphnia magna		Fresh water	Estimated value; Nominal concentration
/drocarbons, C6, isoalkanes, <	5% n-hexane							
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50		18.27 mg/l	96 h	Oncorhynchus mykiss		Fresh water	QSAR
Acute toxicity crustacea	EL50		31.9 mg/l	48 h	Daphnia magna		Fresh water	QSAR
Toxicity algae and other aquatic plants	EL50		13.56 mg/l	72 h	Pseudokirchneri ella subcapitata		Fresh water	QSAR
Long-term toxicity fish	NOELR		4.089 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR
Long-term toxicity aquatic crustacea	NOELR		7.138 mg/l	21 day(s)	Daphnia magna		Fresh water	QSAR

Classification of this substance is debatable as it does not correspond to the conclusion from the test

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	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	> 13.4 mg/l WAF	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EL50	OECD 202	3.0 mg/l WAF	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EL50	OECD 201	29 mg/l WAF	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish	NOELR		1.534 mg/l	28	Oncorhynchus mykiss		Fresh water	QSAR; Nominal concentration
Long-term toxicity aquatic crustacea	NOEC	OECD 211	0.17 mg/l WAF	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across; GLP
	EL50	OECD 211	1.6 mg/l WAF	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across
Toxicity aquatic micro- organisms	EL50		26.81 mg/l	48 h	Tetrahymena pyriformis		Fresh water	QSAR; Growth rate

Conclusion

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

<u>n-hexane</u>

Biodegradation water			
Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	98 %; GLP	28 day(s)	Read-across
Biodegradation soil			-
Method	Value	Duration	Value determination
			Data waiving

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

В	odegradation water									
	Method	Value	Duration	Value determination						
	OECD 301F: Manometric Respirometry Test	98 %; GLP	28 day(s)	Read-across						

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

В	Biodegradation water									
	Method	Value	Duration	Value determination						
	OECD 301F: Manometric Respirometry Test	98 %; GLP	28 day(s)	Experimental value						

Conclusion

Contains readily biodegradable component(s)

12.3. Bioaccumulative potential

CLEAR LUBE S

Log Kow

Method	F	Remark		Value	Те	emperature	Value	determination
	٦	Not applicable	(mixture)					
<u>n-hexane</u>								
BCF fishes								
Parameter	Method	Va	lue	Duration	Species	5		Value determination
BCF	Other	50	1.187		Pimeph	ales promelas		QSAR
Log Kow								
Method		Remark		Value		Temperature	Va	lue determination
Equivalent to C	ECD 107			4	20 °C		Ex	perimental value
nydrocarbons, C6,	isoalkanes, <	5% n-hexane						
BCF fishes								
Parameter	Method	Va	lue	Duration	Species	5		Value determination
BCF		50	1.187		Pimeph	ales promelas		Calculated value
Log Kow		-						
Method		Remark		Value		Temperature	Va	lue determination
Equivalent to C	ECD 107			3.6	20 °C		Re	ad-across
hydrocarbons, C7,	n-alkanes, isc	alkanes, cyclic	<u>s</u>	•		•		
Log Kow								
Method		Remark		Value		Temperature	Va	lue determination
				> 3				
n for revision: 3						Publication date:	2007-07-31	
n for revision: 3						Publication date: Date of revision:		

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

<u>n-hexane</u>

- (log)	Kor

(10											
	Parameter					Method V				Value determination	
	log Koc							3.34		QSAR	
Pe	Percent distribution										
	Method Fraction air Fraction biota Fractio					Fraction soil Fraction water		water	Value determination		
			sediment	:							
	Mackay level III	91.6 %	0 %	0.7 %		2.8 %	4.9 %		Calculated value	ue	

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

(log) Koc

Parameter				Method	Value	Value determination
log Koc					3.34	Calculated value
Percent distri	bution					
Method	Fraction air	Fraction biota	Fraction	Fraction soil	Fraction water	Value determination

	wethou	Fraction an	Fraction blota	Fraction	Fraction son	Fraction water	value determination
				sediment			
	Mackay level III	93.6 %	0 %	2.1 %	0.5 %	3.8 %	Calculated value
hyc	rocarbons, C7, n-alk	anes, isoalkanes, o	cyclics				

Percent distribution

Method	Fraction air		Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	96 %	0 %	1.8 %	0.55 %	1.4 %	Calculated value

Conclusion

Contains component(s) that adsorb(s) into the soil

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

CLEAR LUBE S

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)

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). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Refer to manufacturer/supplier for information on recovery/ recycling. 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. <u>1</u> . UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Hazard identification number	
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Class	2
Classification code	5F
4.4. Packing group	
Packing group	
Labels	2.1
4.5. Environmental hazards	
Environmentally hazardous substance mark	no
4.6. 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. <u>1</u> . UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Hazard identification number	23
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

4. <u>1. UN number</u>		
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. <u>4. Packing group</u>		
Packing group		
Labels	2.1	
14. <u>5. Environmental hazards</u>		
Environmentally hazardous substance mark	no	
14.6. Special precautions for user		
Special provisions	190	
Special provisions	327	
Special provisions	344	
Special provisions	625	
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)	

Sea (IMDG/IMSBC)

14.1. UN number		
UN number	1950	
14.2. UN proper shipping name		
Proper shipping name	Aerosols	
14.3. Transport hazard class(es)		
Class	2.1	
14.4. Packing group		
Packing group		
Labels	2.1	
14.5. Environmental hazards		
Marine pollutant	-	
Environmentally hazardous substance mark	no	
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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 for	
		liquids. A package shall not weigh more than 30 kg. (gross mass)	
14	4.7. Transport in bulk according to Annex II of Marpol and the IBC Code		
	Annex II of MARPOL 73/78	Not applicable	

A:= /ICA	<u>о ті/</u>	

Air (ICAO-TI/IATA-DGR)

4. <u>1</u> . UN number		
UN number	1950	
14.2. UN proper shipping name		
Proper shipping name	Aerosols, flammable	
14.3. Transport hazard class(es)		
Class	2.1	
14.4. Packing group		
Packing group		
Labels	2.1	
14. <u>5. Environmental hazards</u>		
Environmentally hazardous substance mark	no	
14.6. Special precautions for user		
Special provisions	A145	
Special provisions	A167	
Special provisions	A802	
Passenger and cargo transport		
Limited quantities: maximum net quantity per packaging	30 kg G	

SECTION 15: Regulatory information

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

VOC content Directive 2010/75/EU

VOC content	Remark
67.00 %	
445.649 g/l	

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.

• n-hexane • hydrocarbons, C6, isoalkanes, < 5% n- hexane • hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Designation of the substance, of the group of substances or of the mixture 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;	Conditions of restriction 1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market	
	(d) hazard class 5.1.	by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage"; b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. 6. No later than 1 June 2014, the Commission shall request the European Chemicals	
ason for revision: 3	son for revision: 3 Publication date: 2007-07-31		

Date of revision: 2019-03-08

		Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled H304, intended for supply to the general public. 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission. ¹
 n-hexane hydrocarbons, C6, isoalkanes, < 5% n-hexane hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 	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.	 Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: metallic glitter intended mainly for decoration, artificial snow and frost, "whoopee" cushions, silly string aerosols, mittation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, stink bombs. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only". 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. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

National legislation Belgium CLEAR LUBE S

No data available

National legislation The Netherlands

<u>CLEAR LOBE S</u>		
Waterbezwaarlijkheid	Z (2); Algemene Beoordelingsmethodiek (ABM)	
<u>n-hexane</u>		
SZW - Lijst van voor de	n-Hexaan; 2; Suspected of damaging fertility.	
voortplanting giftige stoffen		
(vruchtbaarheid)		

National legislation France

No data available

<u>n-hexane</u>	<u>-hexane</u>					
Catégorie toxique pour la	n-Hexane; R2					
reproduction						

National legislation Germany

<u> </u>	<u>CLEAR LOBE 3</u>							
WGK 2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV)		2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017						
<u>n</u>	<u>n-hexane</u>							
	TA-Luft	5.2.5/I						
, , ,		n-Hexan; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen						
		Grenzwertes nicht befürchtet zu werden						
<u>h</u>	hydrocarbons, C6, isoalkanes, < 5% n-hexane							
	TA-Luft	5.2.5/I						
<u>h</u>	hydrocarbons, C7, n-alkanes, isoalkanes, cyclics							
	TA-Luft	5.2.5/I						

National legislation United Kingdom CLEAR LUBE S

No data available

Other relevant data

CLEAR LUBE S				
No data available				
<u>n-hexane</u>				
Skin absorption	n-Hexane; Skin; Danger of cutaneous absorption			

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

Reason for revision: 3

SECTION 16: Other information

ION TO: Othe	r information				
Full text of any H-stat	ements referred to under heading 3:				
H220 Extremely flammable gas.					
H222 Extremely	H222 Extremely flammable aerosol.				
H225 Highly flam	mable liquid and vapour.				
H229 Pressurised	container: May burst if heated.				
H280 Contains ga	s under pressure; may explode if heater	d.			
H304 May be fat	al if swallowed and enters airways.				
H315 Causes skir	irritation.				
H336 May cause	drowsiness or dizziness.				
H361f Suspected	of damaging fertility.				
H373 May cause	damage to organs (central nervous syste	em) through prolonged o	r repeated exposure if inhaled.		
H411 Toxic to aquatic life with long lasting effects.					
H412 Harmful to	aquatic life with long lasting effects.				
(*)	INTERNAL CLASSIFICATION BY BIG				
ADI	Acceptable daily intake				
AOEL	Acceptable operator exposure leve	el			
CLP (EU-GHS)	Classification, labelling and package	ing (Globally Harmonised	l System in Europe)		
DMEL	Derived Minimal Effect Level				
DNEL	Derived No Effect Level				
EC50	Effect Concentration 50 %				
ErC50	EC50 in terms of reduction of grow	vth 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-ope	ration and Development			
PBT	Persistent, Bioaccumulative & Tox	ic			
PNEC	Predicted No Effect Concentration				
STP	Sludge Treatment Process				
vPvB	very Persistent & very Bioaccumul	ative			
Specific concentratio	1 limits CLP				
n-hexane		C ≥ 5 %	STOT RE 2; H373	CLP Annex VI (ATP 0)	

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. 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 union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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