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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 21.08.2015 / 0021

Replacing version dated / version: 22.04.2015 / 0020

Valid from: 21.08.2015 PDF print date: 27.08.2015

BENZIN-SYSTEM-PFLEGE 300 mL

Art.: 5108

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

1.1 Product identifier

BENZIN-SYSTEM-PFLEGE 300 mL

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

Fuel additive

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany Phone: (+49) 0731-1420-0, Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
_		

Asp. Tox. 1 H304-May be fatal if swallowed and enters airways.

Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

STOT RE 1 H372-Causes damage to organs through prolonged or

repeated exposure by inhalation (central nervous

system).

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



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Danger

H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects. H372-Causes damage to organs through prolonged or repeated exposure by inhalation (central nervous system).

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P260-Do not breathe vapours or spray.

P301+P310+P331-IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. P314-Get medical advice/attention if you feel unwell.

P405-Store locked up.

P501-Dispose of contents/container to special waste collection point.

EUH066-Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hydrocarbons, C10, aromatics, >1% naphthalene

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

When using: development of flammable vapour/air mixture possible.

Product can compose a film on the water surface, which can prevent oxygen exchange.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. 3.2 Mixture

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-	
25%)	
Registration number (REACH)	01-2119473977-17-XXXX
Index	
EINECS, ELINCS, NLP	919-164-8 (REACH-IT List-No.)
CAS	
content %	80-<100
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304
	Aquatic Chronic 3, H412
	STOT RE 1, H372 (central nervous system) (as inhalation)

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
Registration number (REACH)	01-2119456620-43-XXXX
Index	
EINECS, ELINCS, NLP	926-141-6 (REACH-IT List-No.)
CAS	
content %	1-10



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Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304	
Hydrocarbons, C10, aromatics, >1% naphthalene		
Registration number (REACH)	01-2119463588-24-XXXX	
Index		
EINECS, ELINCS, NLP	919-284-0 (REACH-IT List-No.)	
CAS	(64742-94-5)	
content %	1-<5	
Classification according to Regulation (EC) 1272/2008 (CLP)	Carc. 2, H351	
	STOT SE 3, H336	
	Asp. Tox. 1, H304	
	Aquatic Chronic 2, H411	

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eve contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

With long-term contact:

Irritation of the eyes

Headaches

Dizziness Nausea

Product removes fat.

Drying of the skin.

Dermatitis (skin inflammation)

Ingestion:

Danger of aspiration

Lung damage

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

CO2

Dry extinguisher



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Foam

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Toxic pyrolysis products.

Flammable vapour/air mixtures

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Do not heat to temperatures close to flash point.

Take precautions against electrostatic charges.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Solvent resistant floor



Content %:80-

<100

Content %:

(B)

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Do not store with oxidizing agents. Store in a well ventilated place. Protect from direct sunlight and warming.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

8.1 Control parameters

Chemical Name

Chemical Name

BMGV:

Monitoring procedures:

WEL-TWA: 10 ppm (50 mg/m3) (EU)

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 1000 mg/m3

WEL-TWA: 1000 mg/m3	WEL-STEL:			
Monitoring procedures:	- Draeger - Hydroc	arbons 2/a (81 03 581)		
	- Draeger - Hydroc	arbons 0,1%/c (81 03 571)		
	- Compur - KITA-18	87 S (551 174)		
BMGV:		Other information: EH40)	(WEL acc.	to RCP-method,
Chemical Name	Hydrocarbons, C11-C14, n-alkanes	s, isoalkanes, cyclics, < 2% aromatics		Content %:1-10
WEL-TWA: 1200 mg/m3 (>=C7 nd	ormal and branched WEL-STEL:	2(II) (AGW)		
chain alkanes)				
Monitoring procedures:	- Draeger - Hydroc	arbons 2/a (81 03 581)		
	 Draeger - Hydroc 	arbons 0,1%/c (81 03 571)		
	 Compur - KITA-18 	87 S (551 174)		
BMGV:		Other information:		
(B) Chemical Name	Hydrocarbons, C10, aromatics, >1%	% naphthalene		Content %:1-<5
WEL-TWA: 500 mg/m3 (Aromatics	s) WEL-STEL:			
Monitoring procedures:	- Draeger - Hydroc	arbons 2/a (81 03 581)		
	- Draeger - Hydroc	arbons 0,1%/c (81 03 571)		
	- Compur - KITA-18	87 S (551 174)		
BMGV:	•	Other information:		

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

Compur - KITA-153 U(C) (551 182)

Other information:

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

WEL-STEL:

Naphthalene

Hydrocarbons, C10, aromatics, >1% naphthalene										
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note				
	Environmental									
	compartment									
Workers / employees	Human - dermal	Long term, systemic	DNEL	12,5	mg/kg					
		effects			bw/day					
Workers / employees	Human - inhalation	Long term, systemic	DNEL	150	mg/m3					
, ,		effects								
Consumer	Human - dermal	Long term, systemic	DNEL	7,5	mg/kg					
		effects		,	bw/day					
Consumer	Human - inhalation	Long term, systemic	DNEL	32	mg/m3					
		effects								



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Consumer	Human - oral	Long term, systemic	DNEL	7,5	mg/kg	
		effects		•	bw/day	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - oral	Long term, systemic effects	DNEL	26	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	26	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	44	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	330	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	71	mg/m3	

Naphthalene						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3,57	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	25	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	25	mg/m3	
	Environment - freshwater		PNEC	2,4	μg/l	
	Environment - marine		PNEC	0,24	μg/l	
	Environment - sewage treatment plant		PNEC	2,9	mg/l	
	Environment - sediment, freshwater		PNEC	0,0672	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,0672	mg/kg dry weight	
	Environment - soil		PNEC	0,0533	mg/kg dry weight	

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Solvent resistant protective gloves (EN 374).

If applicable

Suitable are, e.g., safety gloves from KCL GmbH Co., D-36124

Eichenzell, e-mail vertrieb@kcl.de, following specifications:

Protective Viton® / fluoroelastomer gloves (EN 374)

Vitojec 890



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Protective nitrile gloves (EN 374) Minimum layer thickness in mm:

0.4

Permeation time (penetration time) in minutes:

> 480

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:

Colour:

Odour:

Characteristic

Odour threshold:

PH-value:

Liquid

Light yellow

Characteristic

Not determined

n.a.

Melting point/freezing point:

Initial boiling point and boiling range:

Not determined

Not determined

Flash point: 63 °C
Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Lower explosive limit: 0,6 Vol-% (Napl

Lower explosive limit:

Upper explosive limit:

Upper explosive limit:

Vapour pressure:

0,6 Vol-% (Naphtha (petroleum), hydrodesulfurized heavy)
7 Vol-% (Naphtha (petroleum), hydrodesulfurized heavy)
Not determined

Vapour density (air = 1):

Density:

Bulk density:

Solubility(ies):

Water solubility:

Partition coefficient (n-octanol/water):

Not determined

Not determined

Not determined

Not determined

Not determined

Not determined

Auto-ignition temperature: >200 °C (DIN 51794, Ignition temperature Naphtha (petroleum),

hydrodesulfurized heavy)

Not determined

Oxidising properties: No

9.2 Other information

Miscibility: Not determined Fat solubility / solvent: Not determined



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Conductivity: Not determined Surface tension: Not determined Solvents content: Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

BENZIN-SYSTEM-PFLEGE 300 mL Art.: 5108 Toxicity / effect Endpoin Value Unit Organism Test method Notes Acute toxicity, by oral route: n.d.a. Acute toxicity, by dermal route: n.d.a. Acute toxicity, by inhalation: n.d.a. Skin corrosion/irritation: n.d.a. Serious eye damage/irritation: n.d.a. Respiratory or skin sensitisation: n.d.a. Germ cell mutagenicity: n.d.a. negative, the real Carcinogenicity: Naphthalene content is <1% Reproductive toxicity: n.d.a. Specific target organ toxicity n.d.a. single exposure (STOT-SE): Specific target organ toxicity n.d.a. repeated exposure (STOT-RE): Aspiration hazard: n.d.a. Symptoms: n.d.a. Other information: Classification according to calculation procedure.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)							
Toxicity / effect	Endpoin	Value	Unit	Organism	Test method	Notes	
	t						
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral		
					Toxicity)		
Acute toxicity, by dermal route:	LD50	>3400	mg/kg	Rat	OECD 402 (Acute		
					Dermal Toxicity)		
Acute toxicity, by inhalation:	LC50	13,1	mg/l/4h	Rat	OECD 403 (Acute	Vapours, Maximum	
					Inhalation Toxicity)	achievable concentration.	



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Skin corrosion/irritation:	Not irritant, Repeated
	exposure may cause skin
	dryness or cracking.
Serious eye damage/irritation:	Not irritant
Respiratory or skin sensitisation:	Not sensitizising
Germ cell mutagenicity:	Negative
Carcinogenicity:	Analogous conclusion,
	Negative
Specific target organ toxicity -	Target organ(s): central
repeated exposure (STOT-RE):	nervous system
Aspiration hazard:	Yes
Symptoms:	headaches, dizziness,
	fatigue, nausea
Specific target organ toxicity -	No
single exposure (STOT-SE),	
inhalative:	
Specific target organ toxicity -	Target organ(s): central
repeated exposure (STOT-RE),	nervous system
inhalat.:	

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics							
Toxicity / effect	Endpoin t	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)		
Acute toxicity, by inhalation:	LC50	>5000	mg/m3	Rat	OECD 403 (Acute Inhalation Toxicity)		
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)	Analogous conclusion, Drying of the skin., Dermatitis (skin inflammation)	
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Analogous conclusion, Slightly irritant	
Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)	Not sensitizising (Analogous conclusion)	
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Analogous conclusion, Negative	
Germ cell mutagenicity:					in vivo	Negative	
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Analogous conclusion, Negative	
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Analogous conclusion, Negative	
Specific target organ toxicity - single exposure (STOT-SE):						Analogous conclusion, No indications of such an effect.	
Specific target organ toxicity - repeated exposure (STOT-RE):					OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Analogous conclusion, Not to be expected	
Aspiration hazard:						Harmful: may cause lung damage if swallowed.	
Symptoms:						drying of the skin., headaches, fatigue, dizziness, nausea	

Hydrocarbons, C10, aromatics, >1% naphthalene							
Toxicity / effect	Endpoin	Value	Unit	Organism	Test method	Notes	
-	t			_			
					•		



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Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>4688	mg/m3	Rat	OECD 403 (Acute	
					Inhalation Toxicity)	
Skin corrosion/irritation:					OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:					OECD 405 (Acute Eye	Mild irritant
concac cyc connegcionicon					Irritation/Corrosion)	
Respiratory or skin sensitisation:					OECD 406 (Skin	Not sensitizising,
respiratory of skin sensitivation.					Sensitisation)	Analogous conclusion
Germ cell mutagenicity:					OECD 479 (Genetic	Negative
Germ cell mutagenicity.						Negative
					Toxicology - In Vitro	
					Sister Chromatid	
					Exchange assay in	
					Mammalian Cells)	
Carcinogenicity:						Classification regarding
						limited evidence of a
						carcinogenic effect is
						made on the basis of
						naphthalene content
						(CAS 91-20-3). The
						classification of mixtures
						shall be on the basis of
						actual naphthalene
						content.
Reproductive toxicity:					OECD 414 (Prenatal	Negative, Analogous
					Developmental	conclusion
					Toxicity Study)	
Reproductive toxicity:					OECD 416 (Two-	Negative, Analogous
,					generation `	conclusion
					Reproduction Toxicity	
					Study)	
Specific target organ toxicity -					Gludy)	Vapours may cause
single exposure (STOT-SE):						drowsiness and dizziness.
Specific target organ toxicity -					OECD 409 (Papaged	Negative, Analogous
					OECD 408 (Repeated	
repeated exposure (STOT-RE):					Dose 90-Day Oral	conclusion
					Toxicity Study in	
					Rodents)	
Specific target organ toxicity -					OECD 413	Negative, Analogous
repeated exposure (STOT-RE):					(Subchronic Inhalation	conclusion
					Toxicity - 90-Day	
					Study) study)	
Specific target organ toxicity -					OECD 452 (Chronic	Negative, Analogous
repeated exposure (STOT-RE):					Toxicity Studies)	conclusion
Aspiration hazard:					. chicky cladico,	Yes
Symptoms:						drowsiness, headaches,
Symptoms.						
	l					drowsiness, dizziness

Naphthalene							
Toxicity / effect	Endpoin t	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	490	mg/kg	Rat			
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit			
Acute toxicity, by inhalation:	LC50	>340	mg/m3	Rat		1h	
Skin corrosion/irritation:				Rabbit		Irritant, Classification according to Regulation (EC) 1272/2008 (CLP)	
Serious eye damage/irritation:						Irritant, Classification according to Regulation (EC) 1272/2008 (CLP)	



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Symptoms:		lack of appetite, ataxia, breathing difficulties, unconsciousness, diarrhoea, cornea opacity, headaches, cramps, gastrointestinal
		disturbances, mucous membrane irritation, dizziness, nausea and vomiting.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							Isolate as much as possible with an oil separator.
Bioaccumulative potential:							n.d.a.
Mobility in soil:							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Other adverse effects:							n.d.a.
Other information:							According to the recipe, contains no AOX.

Hydrocarbons, C10-C	13, n-alkanes, is	oalkanes	, cyclics, a	romatics	(2-25%)		
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LL50	96h	>10- <100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	NOEC/NO EL	21d	0,097	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
Toxicity to daphnia:	EL50	48h	10-22	mg/l	Daphnia magna		Analogous conclusion
Toxicity to algae:	EL50	72h	10-100	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:		28d	74,7	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
Bioaccumulative potential:	Log Pow		4,2-7,2				
Bioaccumulative potential:	Log Kow		4,2-7,2				A notable biological accumulation potential has to be expected (LogPow > 3).
Results of PBT and							No PBT substance, No
vPvB assessment			1				vPvB substance
Toxicity to bacteria:	EC50		>10- 100	mg/l			

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics



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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus	OECD 203 (Fish,	
				_	mykiss	Acute Toxicity	
						Test)	
Toxicity to fish:	NOELR	28d	0,17	mg/l	Oncorhynchus	QSAR	
					mykiss		
Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
Toxicity to daphnia:	NOELR	21d	1,22	mg/l	Daphnia magna	QSAR	
Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriell	OECD 201	
					a subcapitata	(Alga, Growth	
						Inhibition Test)	
Toxicity to algae:	ErL50	72h	>1000	mg/l	Pseudokirchneriell	OECD 201	
					a subcapitata	(Alga, Growth	
						Inhibition Test)	
Persistence and		28d	69	%		OECD 301 F	
degradability:						(Ready	
						Biodegradability -	
						Manometric	
						Respirometry	
						Test)	
Persistence and		28d	69	%		OECD 301 F	Readily biodegradable
degradability:						(Ready	
						Biodegradability -	
						Manometric	
						Respirometry	
	<u> </u>					Test)	
Bioaccumulative potential:	Log Pow		6-8				
Results of PBT and							No PBT substance, No
vPvB assessment							vPvB substance

Hydrocarbons, C10, a				1114	0	Tables of the sale	NI-4
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	2-5	mg/l			
Toxicity to fish:	LL50	96h	2-5	mg/l	Oncorhynchus		
					mykiss		
Toxicity to daphnia:	EC50	48h	3-10	mg/l			
Toxicity to daphnia:	EL50	48h	3-10	mg/l	Daphnia magna		
Toxicity to algae:	EC50	72h	1 - 3	mg/l			
Toxicity to algae:	IC50		1 - 10	mg/l			Analogous conclusion
Toxicity to algae:	EL50	72h	11	mg/l	Pseudokirchneriell		-
					a subcapitata		
Toxicity to algae:	NOELR	72h	2,5	mg/l	Pseudokirchneriell		
					a subcapitata		
Persistence and							Rapid photochemical
degradability:							oxidation in the air.
Persistence and		28d	57,95	%			Readily biodegradable
degradability:							
Bioaccumulative	Log Pow		>3,8-				
potential:			4,8				
Mobility in soil:							Adsorption in ground.,
							Slight
Results of PBT and							No PBT substance, No
vPvB assessment							vPvB substance
Toxicity to bacteria:	EC50		1-10	mg/l			Analogous conclusion
Other information:							Product floats on the
							water surface.
Other information:	AOX		0	%			

Naphthalene



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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	1,6	mg/l			Does not conform with
							EU classification.
Toxicity to daphnia:	EC50	48h	1,96	mg/l	Daphnia magna		Does not conform with EU classification.
Bioaccumulative potential:	BCF		>100				
Bioaccumulative potential:	Log Pow		3,3				

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

07 07 04 other organic solvents, washing liquids and mother liquors

14 06 03 other solvents and solvent mixtures

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

UN number: n.a.

Transport by road/by rail (ADR/RID)

UN proper shipping name:

Transport hazard class(es):

Packing group:

Classification code:

LQ (ADR 2015):

n.a.

n.a.

Environmental hazards: Not applicable

Tunnel restriction code: Transport by sea (IMDG-code)

UN proper shipping name:

Transport hazard class(es):

Packing group:

Marine Pollutant:

n.a.

Environmental hazards: Not applicable

Transport by air (IATA)

UN proper shipping name:

Transport hazard class(es):

Packing group:

Environmental hazards:

n.a.

Not applicable

Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

Transport in bulk according to Annex II of MARPOL and the IBC Code



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Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

For classification and labelling see Section 2.

Observe restrictions:

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

Observe law on protection of expectant mothers (German regulation).

Directive 2010/75/EU (VOC): Directive 2010/75/EU (VOC):

 $\sim 780 \text{ g/l}$

~ 97 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

1 - 16

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation	Evaluation method used
(EC) No. 1272/2008 (CLP)	
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.
STOT RE 1, H372	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H372 Causes damage to organs through prolonged or repeated exposure by inhalation.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Asp. Tox. — Aspiration hazard

Aguatic Chronic — Hazardous to the aguatic environment - chronic

STOT RE — Specific target organ toxicity - repeated exposure

Carc. — Carcinogenicity

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Any abbreviations and acronyms used in this document:

AC **Article Categories**

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

Adsorbable organic halogen compounds AOX

approx. approximately

Art., Art. no. Article number

Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) ATE



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Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) BGV

Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BHT BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

body weight bw

CAS Chemical Abstracts Service

Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CEC

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

for example (abbreviation of Latin 'exempli gratia'), for instance e.g.

EC **European Community** ECHA European Chemicals Agency EEA European Economic Area **EEC** European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

ΕN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

FS Exposure scenario etc. et cetera EU **European Union EWC**

European Waste Catalogue

Fax number Fax. aen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer IATA International Air Transport Association **IBC** Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive incl.

IUCLID International Uniform Chemical Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration

Lethal Dose of a chemical LD LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

Limited Quantities 10

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable



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n.av. not available n.c. not checked n.d.a. no data available

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level

ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic

PAH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic

PC Chemical product category

PE Polyethylene

PNEC Predicted No Effect Concentration
POCP Photochemical ozone creation potential

ppm parts per million
PROC Process category
PTFE Polytetrafluorethylene

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List

Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by

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