

Page 1 of 14 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 18.06.2019 / 0023 Replacing version dated / version: 09.07.2018 / 0022 Valid from: 18.06.2019 PDF print date: 08.02.2021 Valve Clean

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

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

1.1 Product identifier

Valve Clean

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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:

Additives Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+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

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Aquatic Chronic

H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)





Page 2 of 14 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 18.06.2019 / 0023 Replacing version dated / version: 09.07.2018 / 0022 Valid from: 18.06.2019 PDF print date: 08.02.2021 Valve Clean

H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P301+P310+P331-IF SWALLOWED: Immediately call a POISON CENTER / doctor. Do NOT induce vomiting. P405-Store locked up.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH066-Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Hydrocarbons, C10, aromatics, >1% naphthalene

2.3 Other hazards

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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 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119457273-39-XXXX
Index	
EINECS, ELINCS, NLP	918-481-9 (REACH-IT List-No.)
CAS	
content %	60-90
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304
Hydrocarbons, C10, aromatics, >1% naphthalene	
Registration number (REACH)	
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)	Asp. Tox. 1, H304
	STOT SE 3, H336
	Aquatic Chronic 2, H411
Naphthalene	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	601-052-00-2
EINECS, ELINCS, NLP	202-049-5
CAS	91-20-3
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP)	Carc. 2, H351
	Acute Tox. 4, H302
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

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 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.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.



Page 3 of 14 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 18.06.2019 / 0023 Replacing version dated / version: 09.07.2018 / 0022 Valid from: 18.06.2019 PDF print date: 08.02.2021 Valve Clean

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

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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

Wash thoroughly with soap and water - consult doctor if necessary.

Eye 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 - give copious water to drink. 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.

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

Gastric lavage (stomach washing) only under endotracheal intubation.

Subsequent observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam Extinction powder Water jet spray

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 gases Flammable vapour/air mixtures

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

Keep unprotected persons away. Remove possible causes of ignition - do not smoke.



Page 4 of 14 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 18.06.2019 / 0023 Replacing version dated / version: 09.07.2018 / 0022 Valid from: 18.06.2019 PDF print date: 08.02.2021 Valve Clean

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.

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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, sand, diatomaceous earth) 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. 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. Observe special storage conditions. Solvent resistant floor 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

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 800 mg/m3

Chemical Name	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycli	ics, <2% aromatics	Content %:60-90
WEL-TWA: 800 mg/m3	WEL-STEL:		
Monitoring procedures:	 Draeger - Hydrocarbons 0,1%/c (8⁻ 	1 03 571)	
	 Draeger - Hydrocarbons 2/a (81 03 	581)	
	- Compur - KITA-187 S (551 174)		
BMGV:		Other information: (C	EL acc. to RCP-method,
		paragraphs 84-87, EH	40)
Chemical Name	Hydrocarbons, C10, aromatics, >1% naphthalene		Content %:1-5
WEL-TWA: 500 mg/m3 (Aromatics) WEL-STEL:		



Revision date / version: 18. Replacing version dated / v Valid from: 18.06.2019 PDF print date: 08.02.2021 Valve Clean		6, Annex II				
Monitoring procedures:	- Drae	ger - Hydrocarbons 0,1%/c (81 03 571)			
		ger - Hydrocarbons 2/a (81 (
		pur - KITA-187 S (551 174)	,			
BMGV:		, , ,	Other infor	mation:	-	
Chemical Name	Naphthalene				Co	ntent %:0,1-<1
WEL-TWA: 500 mg/m3 (A (50 mg/m3) (EU)		'EL-STEL:				,
Monitoring procedures:	- NIOS - NIOS	pur - KITA-153 U(C) (551 18 SH 5506 (POLYNUCLEAR A SH 5515 (POLYNUCLEAR A A 35 (Napthalene) - 1982	ROMATIC HYI			
BMGV:			Other infor	mation:	-	
Chemical Name	Hydrocarbons C11-C1	4, n-alkanes, isoalkanes, cy	clics <2% aror	natics		Content %:
	(>=C7 normal and branched W	EL-STEL:				
A. 4. 1. 1. 1. 1.						
Monitoring procedures:	- Drae	ger - Hydrocarbons 0,1%/c (ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174)	03 581)		J	
Monitoring procedures: BMGV:	- Drae	ger - Hydrocarbons 2/a (81 (mation:	-	
BMGV:	- Drae	ger - Hydrocarbons 2/a (81 (03 581)	mation:	-	
BMGV: Naphthalene	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174)	03 581)			Note
BMGV:	- Drae - Com	ger - Hydrocarbons 2/a (81 (03 581)	mation:	Unit	Note
BMGV: Naphthalene	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174)	03 581)			Note
BMGV: Naphthalene	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174)	03 581)	Value	Unit	Note
BMGV: Naphthalene	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174)	Other inform	Value	Unit µg/l	Note
BMGV: Naphthalene	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174)	Other inform	Value	Unit	Note
BMGV: Naphthalene	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174)	Other inform Other inform Descriptor PNEC PNEC	Value 2,4 0,24	Unit µg/l µg/l	Note
BMGV: Naphthalene	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174)	Other inform Other inform Descriptor PNEC PNEC	Value 2,4 0,24	Unit µg/l µg/l	Note
BMGV: Naphthalene	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174)	Other inform Other inform Descriptor PNEC PNEC PNEC PNEC	Value 2,4 0,24 2,9 0,0672	Unit µg/I µg/I mg/I mg/kg dry weight	Note
BMGV: Naphthalene	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174)	Other inform Other inform Descriptor PNEC PNEC PNEC	Value 2,4 0,24 2,9	Unit µg/l µg/l mg/l mg/kg dry weight mg/kg dry	Note
BMGV: Naphthalene	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174)	Other inform Other inform Descriptor PNEC PNEC PNEC PNEC PNEC PNEC	Value 2,4 0,24 2,9 0,0672 0,0672	Unit µg/l µg/l mg/l mg/kg dry weight mg/kg dry weight	Note
BMGV: Naphthalene Area of application	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174) Effect on health	Other inform Other inform Descriptor PNEC PNEC PNEC PNEC PNEC PNEC PNEC	Value 2,4 0,24 2,9 0,0672 0,0672 0,0533	Unit µg/l µg/l mg/kg dry weight mg/kg dry weight mg/kg dry weight	Note
BMGV: Naphthalene	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174) Effect on health	Other inform Other inform Descriptor PNEC PNEC PNEC PNEC PNEC PNEC	Value 2,4 0,24 2,9 0,0672 0,0672	Unit µg/l µg/l mg/kg dry weight mg/kg dry weight mg/kg dry	Note
BMGV: Naphthalene Area of application	- Drae - Com	ger - Hydrocarbons 2/a (81 (pur - KITA-187 S (551 174) Effect on health	Other inform Other inform Descriptor PNEC PNEC PNEC PNEC PNEC PNEC PNEC	Value 2,4 0,24 2,9 0,0672 0,0672 0,0533	Unit µg/l µg/l mg/kg dry weight mg/kg dry weight mg/kg dry weight mg/kg dry weight mg/kg dry	Note

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE).
(11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | 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.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls 8.2.1 Appropriate engineering controls

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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.



Page 6 of 14 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 18.06.2019 / 0023 Replacing version dated / version: 09.07.2018 / 0022 Valid from: 18.06.2019 PDF print date: 08.02.2021 Valve Clean

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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:

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

Skin protection - Hand protection: Solvent resistant protective gloves (EN 374). If applicable Protective Viton® / fluoroelastomer gloves (EN 374). Permeation time (penetration time) in minutes: > 480 Minimum layer thickness in mm: > 0,4

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

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. Gas mask filter A (EN 14387), code colour brown At high concentrations: Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138) 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: Colour: Odour: Odour threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Liquid Light yellow Clear Characteristic Not determined n.a. Not determined Not determined



Page 7 of 14

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 18.06.2019 / 0023 Replacing version dated / version: 09.07.2018 / 0022 Valid from: 18.06.2019 PDF print date: 08.02.2021 Valve Clean

Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidising properties:

9.2 Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content:

Not determined Not determined Not determined Not determined Not determined Not determined 0,820 g/ml (15°C) Not determined Not determined Insoluble Not determined Not determined Not determined <7 mm2/s (40°C) Not determined No

>63 °C

Not determined Not determined Not determined 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

Heating, open flame, ignition sources Electrostatic charge

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

10.6 Hazardous decomposition products

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).

Toxicity / effect	Endpoint	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:						Repeated
						exposure may
						cause skin
						dryness or
						cracking.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.



- 68						
Page 8 of 14						
Safety data sheet according to R	egulation (EC)	No 1907/2006, Ai	nnex II			
Revision date / version: 18.06.20	19 / 0023					
Replacing version dated / versior	n: 09.07.2018 /	0022				
Valid from: 18.06.2019						
PDF print date: 08.02.2021						
Valve Clean						
Carcinogenicity:						negative, the
						. .
						real
						Naphthalene
						content is <1%
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
						ma.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.
Symptoms.						n.u.a.
Hydrocarbons, C10-C13, n-alka	ines, isoalkan	es cyclics <2%	aromatics			
				0	Test mother d	Notor
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	Analogous
					Toxicity)	conclusion
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	Analogous
			5.5		Dermal Toxicity)	conclusion
Acute toxicity, by inhalation:	LC50	>4951	mg/m3/4h	Rat	OECD 403 (Acute	Analogous
					Inhalation Toxicity)	conclusion,
					Initial ation Toxicity)	
						Vapours
Skin corrosion/irritation:					OECD 404 (Acute	Not irritant,
					Dermal	,
						Analogous
					Irritation/Corrosion)	conclusion
Serious eye damage/irritation:					OECD 405 (Acute Eye	Not irritant,
Ochous cyc danlage/initation.						
					Irritation/Corrosion)	Analogous
						conclusion
Despiratory (or alvia						
Respiratory or skin					OECD 406 (Skin	Not sensitizising,
sensitisation:					Sensitisation)	Analogous
					,	conclusion
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative,
					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	
						Magativa
Germ cell mutagenicity:					OECD 474 (Mammalian	Negative,
					Erythrocyte	Analogous
					Micronucleus Test)	conclusion
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
O a main a maniality of				typinnanan		N I a mathera
Carcinogenicity:					OECD 453 (Combined	Negative,
					Chronic	Analogous
					Toxicity/Carcinogenicity	conclusion
						CONCIUSION
					Studies)	
Reproductive toxicity:					OECD 414 (Prenatal	Negative,
					Developmental Toxicity	Analogous
					Study)	conclusion
Specific target organ toxicity -					OECD 408 (Repeated	Negative,
repeated exposure (STOT-RE):					Dose 90-Day Oral	Analogous
					Toxicity Study in	conclusion
					Rodents)	
Aspiration hazard:						Yes
			1			unconsciousness
Symptoms:						
						, headaches,
						dizziness
Other information:						Repeated
						exposure may
						cause skin
						dryness or
						cracking.
						ciacking.
Hydrocarbons, C10, aromatics,	>1% naphtha	lene				
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
						140105
Acute toxicity, by oral route:	LD50	~7093	mg/kg	Rat	OECD 401 (Acute Oral	



B Page 9 of 14

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 18.06.2019 / 0023 Replacing version dated / version: 09.07.2018 / 0022 Valid from: 18.06.2019 PDF print date: 08.02.2021 Valve Clean

LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
				Dermal Toxicity)	
LC50	>4688	mg/m3	Rat	OECD 403 (Acute	
				Inhalation Toxicity)	
			Guinea pig	OECD 406 (Skin	Not sensitizising
				Sensitisation)	
				LC50 >4688 mg/m3 Rat	LC50 >4688 mg/m3 Rat Dermal Toxicity) LC50 >4688 mg/m3 Rat OECD 403 (Acute Inhalation Toxicity) Guinea pig OECD 406 (Skin

Naphthalene						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	490	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2500	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	>110	mg/l/4h	Rat		Vapours
Symptoms:						lack of appetite, ataxia, breathing difficulties, unconsciousness , diarrhoea, cornea opacity, headaches, cramps, gastrointestinal disturbances, mucous membrane irritation, dizziness, nausea and vomiting.

Toxicity / effect	Endpoint	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/m3/8h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
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:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogous conclusion
Germ cell mutagenicity:					in vivo	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Analogous conclusion, Negative
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Analogous conclusion, Negative
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Analogous conclusion, Negative



Page 10 of 14 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 18.06.2019 / 0023 Replacing version dated / version: 09.07.2018 / 0022 Valid from: 18.06.2019 PDF print date: 08.02.2021 Valve Clean

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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	Analogous conclusion, Not
	Toxicity Study in Rodents)	to be expected
Aspiration hazard:		Yes
Symptoms:		drying of the skin., headaches, fatigue, dizziness, nausea, diarrhoea, vomiting

SECTION 12: Ecological information

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

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

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Water solubility:							Product floats on
							the water
							surface.
12.1. Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	NOELR	28d	0,101	mg/l	Oncorhynchus		
					mykiss		
12.1. Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOELR	21d	0,176	mg/l	Daphnia magna		



Safety data sheet accordin Revision date / version: 18 Replacing version dated / Valid from: 18.06.2019	8.06.2019 / 002	3		nex II			
PDF print date: 08.02.202	1						
Valve Clean							
12.2. Persistence and degradability:		28d	80	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.1. Toxicity to algae:	EL50	72h	>1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Other organisms:	EL50	48h	>1000	mg/l	Tetrahymen pyriformis		
Hydrocarbons, C10, aro	matics. >1% na	phthalene					
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to daphnia:	EL50	48h	10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EL50	72h	>1-<3	mg/l	Raphidocelis subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Naphthalene							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1,99	mg/l	Pimephales promelas		Does not conform with E classification.
12.1. Toxicity to fish:	LC50	96h	0,51	mg/l			
12.1. Toxicity to daphnia:	EC50	48h	2,19	mg/l	Daphnia magna		
12.1. Toxicity to algae:	LC50	4h	2,96	mg/l	Selenastrum capricornutum		
12.3. Bioaccumulative potential:	BCF		>100				Low
Other information:	BOD5		0	%			
Other information:	COD		22	%			
Other information:	Log Pow		3,3				
Hydrocarbons, C11-C14	, n-alkanes, iso	alkanes, cv	clics, <2% a	romatics			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOELR	28d	0,17	mg/l	Oncorhynchus mykiss	QSAR	

			0,11		mykiss		
12.1. Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOELR	21d	1,22	mg/l	Daphnia magna	QSAR	
12.1. Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	69	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		6-8			, , ,	High
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substanc



Page 12 of 14

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 18.06.2019 / 0023 Replacing version dated / version: 09.07.2018 / 0022 Valid from: 18.06.2019 PDF print date: 08.02.2021 Valve Clean

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

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	
14.1. UN number:	n.a.
Transport by road/by rail (ADR/RID)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Classification code:	n.a.
LQ:	n.a.
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	
Transport by sea (IMDG-code)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Marine Pollutant:	n.a
14.5. Environmental hazards:	Not applicable
Transport by air (IATA)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	
Unless specified otherwise, general measures for safe transp	ort must be followed.
14.7. Transport in bulk according to Anne	x II of MARPOL and the IBC Code
Non dengerous meterial assorting to Transport Degulations	

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

Observe restrictions:

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.



Page 13 of 14 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 18.06.2019 / 0023 Replacing version dated / version: 09.07.2018 / 0022 Valid from: 18.06.2019 PDF print date: 08.02.2021 Valve Clean

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

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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.

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).

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Asp. Tox. — Aspiration hazard Aquatic Chronic — Hazardous to the aquatic environment - chronic STOT SE — Specific target organ toxicity - single exposure - narcotic effects Carc. — Carcinogenicity Acute Tox. — Acute toxicity - oral Aquatic Acute — Hazardous to the aquatic environment - acute

Any abbreviations and acronyms used in this document:

according, according to acc., acc. to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) The International Bromine Council BSEF body weight bw CAS **Chemical Abstracts Service** Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances CLP and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level dw drv weight

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

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Page 14 of 14				
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II				
Revision date / version: 18.06.2019 / 0023				
Replacing version dated / version: 09.07.2018 / 0022				
Valid from: 18.06.2019				
PDF print date: 08.02.2021				
Valve Clean				
EC European Community				
ECHA European Chemicals Agency				
EEC European Economic Community				
EINECS European Inventory of Existing Commercial Chemical Substances				
ELINCS European List of Notified Chemical Substances				
EN European Norms				
EPA United States Environmental Protection Agency (United States of America)				
etc. et cetera				
EU European Union				
EVAL Ethylene-vinyl alcohol copolymer				
Fax. Fax number				
gen. general				
GHS Globally Harmonized System of Classification and Labelling of Chemicals				
GWP Global warming potential				
IARC International Agency for Research on Cancer				
IATA International Air Transport Association				
IBC (Code) International Bulk Chemical (Code)				
IMDG-code International Maritime Code for Dangerous Goods				
incl. including, inclusive				
IUCLID International Uniform Chemical Information Database				
IUPAC International Union for Pure Applied Chemistry				
LC50 Lethal Concentration to 50 % of a test population				
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)				
LQ Limited Quantities				
MARPOL International Convention for the Prevention of Marine Pollution from Ships				
n.a. not applicable				
n.av. not available				
n.c. not checked				
n.d.a. no data available				
OECD Organisation for Economic Co-operation and Development				
org. organic				
PBT persistent, bioaccumulative and toxic				
PE Polyethylene				
PNEC Predicted No Effect Concentration				
ppm parts per million				
PVC Polyvinylchloride				
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)				
SVHC Substances of Very High Concern				
Tel. Telephone				
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods				
VOC Volatile organic compounds				
vPvB very persistent and very bioaccumulative				
wwt wet weight				
The statements made here should deperibe the product with regard to the personal safety pressurings they are				

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: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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