

Page 1 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0004 Replacing version dated / version: 22.04.2021 / 0003 Valid from: 01.11.2021 PDF print date: 01.11.2021 LM 40 Multifunktionsspray LM 40 Multi-Purpose Spray

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

(GB)

LM 40 Multifunktionsspray LM 40 Multi-Purpose Spray

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

Lubricant 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) +1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixtureClassification according to Regulation (EC)1272/2008 (CLP)Hazard classHazard categoryHazard statementAsp. Tox.1H304-May be fatal if swallowed and enters airways.Aerosol1H222-Extremely flammable aerosol.Aerosol1H229-Pressurised container: May burst if heated.

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



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Danger

H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Without adequate ventilation, formation of explosive mixtures may be possible. White mineral oil (Natural oil) Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

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 (< 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 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

Aerosol

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, REACH-IT List-No.	918-481-9
CAS	(64742-48-9)
content %	50-70
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Asp. Tox. 1, H304
White mineral oil (Natural oil)	
Registration number (REACH)	01-2119487078-27-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	232-455-8
CAS	8042-47-5
content %	30-50

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Asp. Tox. 1, H304

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.



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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.

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.

Eye contact

Remove contact lenses.

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

Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water. Do not induce vomiting - give copious water to drink. Consult doctor immediately. 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. The following may occur:

Irritation of the respiratory tract Coughing Headaches Dizziness Effects/damages the central nervous system With long-term contact: drying of the skin. Dermatitis (skin inflammation) Ingestion: Nausea Vomiting Danger of aspiration. Chemical pneumonitis (condition similar to pneumonia) **4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water jet spray / alcohol resistant foam / CO2 / dry extinguisher.

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 sulphur Oxides of nitrogen Toxic gases Danger of bursting (explosion) when heated Explosive vapour/air or gas/air mixtures.



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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

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For personal protective equipment see Section 8. 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 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous. 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

If spray or gas escapes, ensure ample fresh air is available.

Without adequate ventilation, formation of explosive mixtures may be possible. Active substance:

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.

Avoid inhalation of the vapours. Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

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.



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Not to be stored in gangways or stair wells. Store product closed and only in original packing. Observe special regulations for aerosols! Observe special storage conditions. Do not store with flammable or self-igniting materials. Keep protected from direct sunlight and temperatures over 50°C. Store in a well-ventilated place. Store cool. 7.2 Specific and use(c)

7.3 Specific end use(s)

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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, C	10-C13, n-alkanes, isoalkanes, cycli	ics, <2% aromatics		Content %:50-70
WEL-TWA: 800 mg/m3		WEL-STEL:			
Monitoring procedures:	-	Draeger - Hydrocarbons 0,1%/c (87			
	-	Draeger - Hydrocarbons 2/a (81 03	581)		
	-	Compur - KITA-187 S (551 174)			
BMGV:			Other information: (O	EL acc. t	o RCP-method,
			paragraphs 84-87, EH4	l0)	
Chemical Name	Propane				Content %:
	Fiupane				Content /8.
WEL-TWA: 1000 ppm (ACGIH)		WEL-STEL:			
Monitoring procedures:	-	Compur - KITA-125 SA (549 954)			
	-	OSHA PV2077 (Propane) - 1990			
BMGV:			Other information:		
Chemical Name	Oil mist, mineral				Content %:
		WEL-STEL:			Contone /0.
WEL-TWA: 5 mg/m3 (Mineral oil, e	excluding metal	WEL-SIEL			
working fluids, ACGIH)					
Monitoring procedures:	-	Draeger - Oil Mist 1/a (67 33 031)			
BMGV:			Other information:		

Hydrocarbons, C10-C13,	n-alkanes, isoalkanes, cyclics	s, <2% aromatics				
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - oral	Long term, systemic effects	DNEL	300	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	900	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - dermal	Long term, systemic effects	DNEL	92	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	35	mg/m3	



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Consumer	Human - oral	Long term, systemic	DNEL	40	mg/kg	
		effects			bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	160	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	220	mg/kg	
Workers / employees	Human - dermal	Long term, systemic	DNEL	220	mg/kg	
		effects			bw/day	
Workers / employees	Human - inhalation	Long term, systemic	DNEL	160	mg/m3	
		effects				

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 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

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.

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

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0.7

Permeation time (penetration time) in minutes:

480 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. Filter A2 P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.



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Thermal hazards: Not applicable

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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: Aerosol. Active substance: liquid.

Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

9.2 Other information

Explosives:

Oxidising liquids: Evaporation rate: Solvents content:

Yellow Characteristic There is no information available on this parameter. n.a. Does not apply to aerosols. 0,7 Vol-% 10,9 Vol-% Does not apply to aerosols. 470 °C There is no information available on this parameter. There is no information available on this parameter. Does not apply to aerosols. Mixable Does not apply to mixtures. 4500 hPa (20°C) 0,77 g/cm3 (20°C) Does not apply to aerosols. Does not apply to aerosols.

Product is not explosive. When using: development of explosive vapour/air mixture possible. No n.a. 61,2 % (Organic solvents)

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 Pressure increase will result in danger of bursting. **10.5 Incompatible materials** Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products



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No decomposition when used as directed.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Possibly more information on health effects, see Section 2.1 (classification).

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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:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
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.

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	>2000	mg/kg	Rat	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5000	mg/m3/8h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	
Acute toxicity, by inhalation:	LC50	>5	mg/m3/4h	Rat	OECD 403 (Acute	Vapours,
					Inhalation Toxicity)	Analogous
						conclusion
Skin corrosion/irritation:						Repeated
						exposure may
						cause skin
						dryness or
						cracking.,
						Product remove
						fat.
Skin corrosion/irritation:					OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion
Serious eye damage/irritation:					OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative,
					Erythrocyte	Analogous
					Micronucleus Test)	conclusion
Carcinogenicity:					OECD 453 (Combined	Negative,
					Chronic	Analogous
					Toxicity/Carcinogenicity	conclusion
					Studies)	



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Reproductive toxicity:					OECD 421	Negative,
					(Reproduction/Developm	Analogous
					ental Toxicity Screening	conclusion
					Test)	
Reproductive toxicity:	NOAEC	>= 5220	mg/m3	Rat	OECD 414 (Prenatal	Negative,
					Developmental Toxicity	Analogous
					Study)	conclusioninhalat
						ion
Specific target organ toxicity -					OECD 408 (Repeated	No indications of
repeated exposure (STOT-RE):					Dose 90-Day Oral	such an effect.,
					Toxicity Study in	Analogous
					Rodents)	conclusion
Aspiration hazard:					,	Yes
Symptoms:						unconsciousness
						, headaches,
						dizziness,
						Dermatitis (skin
						inflammation),
						Reddening,
						drying of the
						skin., mucous
						membrane
						irritation, nausea
						and vomiting.,
						diarrhoea, lower
						abdominal pain

White mineral oil (Natural oil) Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	Notes
Acute toxicity, by oral route.	LD30	>5000	iiig/kg	Rat	Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
Acute toxicity, by definal foule.	LD30	>2000	iiig/kg	Rabbit	Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5	mg/l/4h	Rat	OECD 403 (Acute	
Acute toxicity, by inhalation.	LC50	>0	mg/i/4n	Rai		
Obie semesie a /imite tie a				Dahkit	Inhalation Toxicity)	N l = 6 l = mil = m 6
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Carcinogenicity:	NOAEL	>1200	mg/kg	Rat	OECD 453 (Combined	Negative
					Chronic	•
					Toxicity/Carcinogenicity	
					Studies)	
Reproductive toxicity:					OECD 415 (One-	Negative
					Generation	- J
					Reproduction Toxicity	
					Study)	
Reproductive toxicity:	NOAEL	>=1000	mg/kg	Rat	OECD 421	Negative
			bw/d		(Reproduction/Developm	. togalite
			<i>burg</i>		ental Toxicity Screening	
					Test)	
Specific target organ toxicity -	NOAEL	>1200	mg/kg	Rat	OECD 453 (Combined	
repeated exposure (STOT-RE):	NOALL	>1200	iiig/kg	Rat	Chronic	
					Toxicity/Carcinogenicity	
					Studies)	
Specific target organ toxicity -	NOAEL	>1200	mg/kg		OECD 452 (Chronic	
	NUAEL	>1200	mg/kg			
repeated exposure (STOT-RE):					Toxicity Studies)	Asp Tax 1
Aspiration hazard:						Asp. Tox. 1



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Symptoms:						nausea and vomiting.
Specific target organ toxicity -	NOAEL	>2000	mg/kg	Rat	OECD 411 (Subchronic	Ŭ
repeated exposure (STOT-RE),					Dermal Toxicity - 90-day	
dermal:					Study)	
Specific target organ toxicity -	NOAEL	1000	mg/kg	Rabbit	OECD 410 (Repeated	
repeated exposure (STOT-RE),					Dose Dermal Toxicity -	
dermal:					90-Day)	

Propane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LC50	260000	ppmV/4h	Rat		Gasses, Male, Analogous conclusion
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity (Developmental toxicity):	NOAEC	21,641	mg/l		OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
Aspiration hazard:						No
Symptoms:	NOAEL	7.214	mall	Dat	OFCD 122 (Combined	breathing difficulties, unconsciousnes, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	7,214	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAEL	21,641	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	

11.2. Information on other hazards

LM 40 Multifunktionsspray LM 40 Multi-Purpose Spray						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:	<u> </u>					Does not apply to mixtures.
Other information:						No other relevant information available on adverse effects on health.



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SECTION 12: Ecological information

LM 40 Multifunktionsspra	ау						
LM 40 Multi-Purpose Spr	ay						
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 degradability:							n.d.a.
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
							Dese net englis
12.6. Endocrine disrupting properties:							Does not apply to mixtures.
2.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Oncorhynchus	OECD 203 (Fish,	
				_	mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	NOELR	28d	0,10	mg/l	Oncorhynchus	QSÁR	
-					mykiss		
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOELR	21d	0,18	mg/l	Daphnia magna	QSAR	
12.1. Toxicity to algae:	ErL50	72h	>1000	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
					-	Test)	
12.2. Persistence and		28d	80	%		OECD 301 F	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative	Log Pow		5,5-7,2				
potential:	-						
12.4. Mobility in soil:	Log Koc		>3				
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
12.7. Other adverse							Product floats or
effects:							the water
							surface.
Water solubility:			~10	mg/l			Slight
White mineral oil (Natura			_	-			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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(GB)·

12.2. Persistence and degradability:		28d	>60	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Biodegradable
12.7. Other adverse effects:							Product floats or the water surface.
12.1. Toxicity to daphnia:	EL50	21d	>1000	mg/l	Daphnia magna		
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Leuciscus idus	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EL50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	LC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EL50	48h	>1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	31,3	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily biodegradable
Toxicity to bacteria:	LC50		>1000	mg/l	activated sludge		
Toxicity to bacteria:	NOELR		>100	mg/l	Pseudomonas subspicata		

Propane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	Log Pow		2,28				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

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 06 04 other organic solvents, washing liquids and mother liquors 16 05 04 gases in pressure containers (including halons) containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.



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Pay attention to local and national official regulations. Take full aerosol cans to problem waste collection. Take emptied aerosol cans to valuable material collection.

For contaminated packing material

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Pay attention to local and national official regulations. Recommendation: Do not perforate, cut up or weld uncleaned container. Recycling 15 01 04 metallic packaging

SECTION 14: Transport information

General statements				
14.1. UN number or ID number:	1950			
Transport by road/by rail (ADR/RID)				
14.2. UN proper shipping name:				
UN 1950 AEROSOLS				
14.3. Transport hazard class(es):	2.1			
14.4. Packing group:	-			
Classification code:	5F			
LQ:	1L			
14.5. Environmental hazards:	Not applicable			
Tunnel restriction code:	D			
Transport by sea (IMDG-code)				
14.2. UN proper shipping name:	•			
AEROSOLS				
14.3. Transport hazard class(es):	2.1			
14.4. Packing group: EmS:	- F-D, S-U			
Marine Pollutant:	r-D, S-O n.a			
14.5. Environmental hazards:	Not applicable			
	Not applicable			
Transport by air (IATA)				
14.2. UN proper shipping name:				
Aerosols, flammable 14.3. Transport hazard class(es):	2.1			
14.3. Transport nazaru class(es). 14.4. Packing group:	2.1			
14.5. Environmental hazards:	Not applicable			
14.6. Special precautions for user				
Persons employed in transporting dangerous goods must be trained All persons involved in transporting must observe safety regulations.				
Precautions must be taken to prevent damage.				
	10 instruments			
14.7. Maritime transport in bulk according to IM				
Freighted as packaged goods rather than in bulk, therefore not appli	cadie.			
Minimum amount regulations have not been taken into account. Danger code and packing code on request.				
Comply with special provisions.				
SECTION 15. R	equilatory information			
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 the protection of young people at work (national implementation of the Directive 94/33/EC)! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):



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Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
P3a	11.1	150 (netto)	500 (netto)

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Entry Nr	Dangerous substances	Notes to Annex I	Qualifying quantity	Qualifying quantity	
			(tonnes) for the	(tonnes) for the	
			application of - Lower-tier	application of - Upper-tier	
			requirements	requirements	
18	Liquefied flammable	19	50	200	
	gases, Category 1 or 2				
	(including LPG) and				
	natural gas				
The Notes to Anney 1 o	The Notes to Append 1 of Directive 2012/18/EU in particular those named in the tables here and notes 1-6 must be taken into account when				

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

61,21 %

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

1-16

Employee training in handling dangerous goods is required. 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 (EC) No. 1272/2008 (CLP)	Evaluation method used
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

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).

H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

Asp. Tox. — Aspiration hazard Aerosol — Aerosols

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA). Safety data sheets for the constituent substances. ECHA Homepage - Information about chemicals.



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GESTIS Substance Database (Germany). German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended. National Lists of Occupational Exposure Limits for each country as amended. Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended. Any abbreviations and acronyms used in this document: according, according to acc., acc. to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Article number Art., Art. no. ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** The International Bromine Council BSEF bw body weight 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 DOC Dissolved organic carbon dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect 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) $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera FU **European Union** EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number general gen. ĞHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Koc Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient Kow International Agency for Research on Cancer IARC International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. 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) Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient Limited Quantities LQ



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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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