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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

1.1 Product identifier

LM 301 A Contact-Oil

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

See definition of the substance or mixture.

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:

Landspitali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland) **Telephone number of the company in case of emergencies:** +49 (0) 700 / 24 112 112 (LMR) +1 872 5888271 (LMR)

SECTION 2: Hazards identification

	of the substance or mix ording to Regulation (E	
Hazard class	Hazard category	Hazard statement
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.
Aerosol	1	H222-Extremely flammable aerosol.
Aerosol	1	H229-Pressurised container: May burst if heated.

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



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H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. 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. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment.

P312-Call a POISON CENTRE / doctor if you feel unwell.

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

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

EUH066-Repeated exposure may cause skin dryness or cracking.

Without adequate ventilation, formation of explosive mixtures may be possible. Pentane

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

3.1 Substances

n.a. 3.2 Mixtures

Pentane	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	601-006-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	203-692-4
CAS	109-66-0
content %	30-40
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Flam. Liq. 2, H225
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	
Registration number (REACH)	01-2119491299-23-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	270-128-1
CAS	68411-46-1
content %	0,1-<0,25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Repr. 2, H361f
	Aquatic Chronic 3, H412



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Impurities, test data and additional information may have been taken into account in classifying and labelling the product. 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.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

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

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Eye contact

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

Keep Data Sheet available.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

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.

The following may occur:

Coughing Headaches

Effects/damages the central nervous system

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2 Extinction powder Foam

Unsuitable extinguishing media

High volume water jet 5.2 Special hazards

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Toxic pyrolysis products. Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters

For personal protective equipment see Section 8. 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



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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.

Avoid contact with eyes or skin.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

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.

6.3 Methods and material for containment and cleaning up

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

Active substance:

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.

Take precautions against electrostatic charges.

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. Avoid contact with eyes or skin.

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. Not to be stored in gangways or stair wells. Store product closed and only in original packing. Do not store with oxidizing agents. Observe special regulations for aerosols! Keep protected from direct sunlight and temperatures over 50°C. Store in a well ventilated place. Observe special storage conditions.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment. Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection



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8.1 Control parameters

Chemical Name	Pentane				-	
WEL-TWA: 1800 mg/m3 (6		EL-STEL:				
8000 mg/m3 (1000 ppm) (EU Monitoring procedures:		er - Pentane 100/a (67 24	701)			
nonitioning procedures.		ur - KITA-113 SB(C) (549				
		(D) (Loesungsmittelgemis	SOO) Sho Moth Nr. 1)		Solvent mixtures	1) - 1009
	- 2002			, DI G (L) (5 1) - 1990
		H 1500 (HYDROCARBON		C) 2002		
		H 2549 (VOLATILE ORGA			ENINC)) 1006	2
BMGV:	- 1103	H 2549 (VOLATILE ORGA	Other infor)
-			Other infor		-	
Chemical Name	Butane					
WEL-TWA: 600 ppm (1450	mg/m3) WE	EL-STEL: 750 ppm (181	0 mg/m3)			
Monitoring procedures:		ur - KITA-221 SA (549 45				
	- OSHA	VPV2010 (n-Butane) - 199				
BMGV:			Other infor	mation:	-	
Chemical Name	Propane					
WEL-TWA: 1000 ppm (ACC		EL-STEL:				
Monitoring procedures:		ur - KITA-125 SA (549 95	4)		<u> </u>	
menning procedures.		NPV2077 (Propane) - 199				
BMGV:		(1 <u>2.</u>	Other infor	mation	-	
-						
B Chemical Name	Isobutane				1	
WEL-TWA: 1000 ppm (EX)		EL-STEL:				
Monitoring procedures:	- Comp	ur - KITA-113 SB(C) (549				
BMGV:			Other infor	mation:	-	
	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
Pentane Area of application	Environmental	Effect on health	Descriptor	Value	Unit	Note
	Environmental compartment	Effect on health				Note
	Environmental compartment Environment - water,	Effect on health	Descriptor PNEC	Value 880	Unit µg/l	Note
	Environmental compartment Environment - water, sporadic (intermittent)	Effect on health				Note
	Environmental compartment Environment - water, sporadic (intermittent) release	Effect on health	PNEC	880	hð\l	Note
	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater	Effect on health	PNEC	880	hð\J	Note
	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - marine	Effect on health	PNEC PNEC PNEC	880 230 230	hð\I hð\I hð\I	Note
	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - marine Environment - sewage	Effect on health	PNEC	880	hð\J	Note
	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - marine Environment - sewage treatment plant	Effect on health	PNEC PNEC PNEC PNEC PNEC	880 230 230 3600	hð\j hð\j hð\j	Note
	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - sediment,	Effect on health	PNEC PNEC PNEC	880 230 230	hð\I hð\I hð\I	Note
	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - sewage treatment plant Environment - sediment, freshwater	Effect on health	PNEC PNEC PNEC PNEC PNEC PNEC	880 230 230 3600 1,2	μg/l μg/l μg/l μg/l mg/kg dw	Note
	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - marine Environment - marine Environment - sewage treatment plant Environment - sediment, freshwater Environment - sediment, freshwater	Effect on health	PNEC PNEC PNEC PNEC PNEC	880 230 230 3600	hð\j hð\j hð\j	Note
	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - sediment, freshwater Environment - sediment, freshwater Environment - sediment, marine	Effect on health	PNEC PNEC PNEC PNEC PNEC PNEC PNEC	880 230 230 3600 1,2 1,2	μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw	Note
Area of application	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - sediment, freshwater Environment - sediment, marine Environment - sediment, sediment, marine		PNEC PNEC PNEC PNEC PNEC PNEC PNEC	880 230 230 3600 1,2 1,2 0,55	μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw mg/kg dw	Note
	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - sediment, freshwater Environment - sediment, freshwater Environment - sediment, marine	Long term, systemic	PNEC PNEC PNEC PNEC PNEC PNEC PNEC	880 230 230 3600 1,2 1,2	μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw	Note
Area of application	Environmental compartmentEnvironment - water, sporadic (intermittent) releaseEnvironment - freshwaterEnvironment - marineEnvironment - sewage treatment plantEnvironment - sediment, freshwaterEnvironment - sediment, marineEnvironment - soilHuman - oral	Long term, systemic effects	PNEC PNEC PNEC PNEC PNEC PNEC PNEC PNEC	880 230 230 3600 1,2 1,2 0,55 214	μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw mg/kg dw mg/kg dw	Note
Area of application	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - sediment, freshwater Environment - sediment, marine Environment - sediment, sediment, marine	Long term, systemic effects Long term, systemic	PNEC PNEC PNEC PNEC PNEC PNEC PNEC	880 230 230 3600 1,2 1,2 0,55	μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw mg/kg dw	Note
Area of application	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - sewage treatment plant Environment - sediment, freshwater Environment - sediment, freshwater Environment - sediment, freshwater Environment - sediment, freshwater Environment - soil Human - oral	Long term, systemic effects Long term, systemic effects	PNEC PNEC PNEC PNEC PNEC PNEC PNEC PNEC	880 230 230 3600 1,2 1,2 1,2 0,55 214 214	μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw mg/kg dw mg/kg dw mg/kg bw/d	Note
Area of application Consumer Consumer	Environmental compartmentEnvironment - water, sporadic (intermittent) releaseEnvironment - freshwaterEnvironment - marineEnvironment - sewage treatment plantEnvironment - sediment, freshwaterEnvironment - sediment, marineEnvironment - soilHuman - oral	Long term, systemic effects Long term, systemic	PNEC PNEC PNEC PNEC PNEC PNEC PNEC PNEC	880 230 230 3600 1,2 1,2 0,55 214	μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw mg/kg dw mg/kg dw	Note
Area of application Consumer Consumer Consumer	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - sewage treatment plant Environment - sediment, freshwater Environment - sediment, freshwater Environment - sediment, freshwater Environment - sediment, freshwater Environment - soil Human - oral	Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic effects	PNEC PNEC PNEC PNEC PNEC PNEC PNEC PNEC	880 230 230 3600 1,2 1,2 1,2 0,55 214 214 643	μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw mg/kg dw mg/kg bw/d mg/kg bw/d mg/kg bw/d	Note
Area of application	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - sewage treatment plant Environment - sediment, freshwater Environment - sediment, freshwater Environment - sediment, freshwater Environment - sediment, freshwater Environment - soil Human - oral Human - dermal Human - inhalation	Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic	PNEC PNEC PNEC PNEC PNEC PNEC PNEC PNEC	880 230 230 3600 1,2 1,2 1,2 0,55 214 214	μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw mg/kg dw mg/kg dw mg/kg bw/d	Note
Area of application Area of application Consumer Consumer Consumer Workers / employees	Environmental compartment Environment - water, sporadic (intermittent) release Environment - freshwater Environment - sewage treatment plant Environment - sediment, freshwater Environment - sediment, freshwater Environment - sediment, freshwater Environment - sediment, freshwater Environment - soil Human - oral Human - dermal Human - inhalation	Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic effects	PNEC PNEC PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL	880 230 230 3600 1,2 1,2 1,2 0,55 214 214 643 3000	μg/l μg/l μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw mg/kg bw/d mg/kg bw/d mg/m3 mg/m3	Note
Area of application	Environmental compartmentEnvironment - water, sporadic (intermittent) releaseEnvironment - freshwaterEnvironment - freshwaterEnvironment - sewage treatment plantEnvironment - sediment, freshwaterEnvironment - sediment, freshwaterEnvironment - sediment, marineEnvironment - sollHuman - oralHuman - inhalationHuman - inhalation	Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic	PNEC PNEC PNEC PNEC PNEC PNEC PNEC PNEC	880 230 230 3600 1,2 1,2 1,2 0,55 214 214 643	μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw mg/kg dw mg/kg bw/d mg/kg bw/d mg/kg bw/d	Note
Area of application Consumer Consumer Consumer Workers / employees	Environmental compartmentEnvironment - water, sporadic (intermittent) releaseEnvironment - freshwaterEnvironment - freshwaterEnvironment - sewage treatment plantEnvironment - sediment, freshwaterEnvironment - sediment, freshwaterEnvironment - sediment, marineEnvironment - sollHuman - oralHuman - inhalationHuman - inhalation	Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic	PNEC PNEC PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL	880 230 230 3600 1,2 1,2 1,2 0,55 214 214 643 3000	μg/l μg/l μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw mg/kg bw/d mg/kg bw/d mg/m3 mg/m3	Note
Area of application Consumer Consumer Consumer Workers / employees	Environmental compartmentEnvironment - water, sporadic (intermittent) releaseEnvironment - freshwaterEnvironment - freshwaterEnvironment - sewage treatment plantEnvironment - sediment, freshwaterEnvironment - sediment, freshwaterEnvironment - sediment, marineEnvironment - sollHuman - oralHuman - inhalationHuman - inhalation	Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic	PNEC PNEC PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL	880 230 230 3600 1,2 1,2 1,2 0,55 214 214 643 3000	μg/l μg/l μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw mg/kg bw/d mg/kg bw/d mg/m3 mg/m3	Note
Area of application Area of application Consumer Consumer Consumer Workers / employees Workers / employees	Environmental compartmentEnvironment - water, sporadic (intermittent) releaseEnvironment - freshwaterEnvironment - freshwaterEnvironment - sewage treatment plantEnvironment - sediment, freshwaterEnvironment - sediment, freshwaterEnvironment - sediment, marineEnvironment - sollHuman - oralHuman - inhalationHuman - inhalation	Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic effects Long term, systemic effects	PNEC PNEC PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL	880 230 230 3600 1,2 1,2 1,2 0,55 214 214 643 3000	μg/l μg/l μg/l μg/l μg/l μg/l mg/kg dw mg/kg dw mg/kg bw/d mg/kg bw/d mg/m3 mg/m3	Note

PNEC

0,0012

mg/l

Environmental compartment

Environment - freshwater



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	Environment - marine		PNEC	0,00012	mg/l	
	Environment - water,		PNEC	0,51	mg/l	
	sporadic (intermittent)					
	release					
	Environment - sediment,		PNEC	0,0246	mg/kg	
	freshwater					
	Environment - sediment,		PNEC	0,00246	mg/kg	
	marine					
	Environment - soil		PNEC	0,0193	mg/kg	
	Environment - sewage		PNEC	0,187	mg/l	
	treatment plant					
Consumer	Human - dermal	Long term, systemic	DNEL	0,04	mg/kg	
		effects				
Consumer	Human - inhalation	Long term, systemic	DNEL	0,14	mg/m3	
		effects				
Consumer	Human - oral	Long term, systemic	DNEL	0,04	mg/kg	
		effects			bw/day	
Workers / employees	Human - dermal	Long term, systemic	DNEL	0,08	mg/kg	
		effects			bw/day	
Workers / employees	Human - inhalation	Long term, systemic	DNEL	0,31	mg/m3	
		effects				

Inited Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). | | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.

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 (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:



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Solvent resistant protective gloves (EN ISO 374). If applicable Protective Neoprene® / polychloroprene gloves (EN ISO 374). Protective PVC gloves (EN ISO 374). Minimum layer thickness in mm: >= 0,5 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: Normally not necessary. At high concentrations: Filter A P3 (EN 14387), code colour brown, white

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:	Yellow
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	Does not apply to aerosols.
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	Does not apply to aerosols.
Auto-ignition temperature:	Does not apply to aerosols.
Decomposition temperature:	There is no information available on this parameter.
pH:	There is no information available on this parameter.
Kinematic viscosity:	Does not apply to aerosols.
Solubility:	There is no information available on this parameter.
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	0,65 g/ml
Relative vapour density:	Does not apply to aerosols.
Particle characteristics:	Does not apply to aerosols.
9.2 Other information	
Explosives:	There is no information available on this parameter.
Oxidising liquids:	No

SECTION 10: Stability and reactivity



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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 Pressure increase will result in danger of bursting.

10.5 Incompatible materials See also section 7.

Avoid contact with 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 hazard classes as defined in Regulation (EC) No 1272/2008

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

oxicity / 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 - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>16000	mg/kg	Rat		
Acute toxicity, by oral route:	LD50	5000	mg/kg	Mouse		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>100	mg/l/4h	Rat		
Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin						Mild irritant, Repeated exposure may cause skin dryness or cracking. Mild irritant Not sensitizising
sensitisation:						
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:						Yes



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Symptoms:						drowsiness,
of the second seco						vomiting, cramps, drowsiness, mucous
						membrane irritation
Benzenamine, N-phenyl-, react	ion products	with 2.4.4-trin	nethvlpentene			
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:	LD50	>5	mg/l/4h	Rat		
Skin corrosion/irritation:			¥	Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Mild irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:					OECD 487 (Ín Vitro Mammalian Cell Micronucleus Test)	Negative
Reproductive toxicity:				Rat	OECD 443 (Extended One-Generation Reproductive Toxicity Study)	Possible risk of impaired fertility.
Specific target organ toxicity - single exposure (STOT-SE):						Negative
Specific target organ toxicity - repeated exposure (STOT-RE):				Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	Target organ(s): Thyroid, Target organ(s): liver
Butane				- ·		
Toxicity / effect Acute toxicity, by inhalation:	Endpoint LC50	Value 658	Unit	Organism Rat	Test method	Notes
Germ cell mutagenicity:	LCSU	030	mg/l/4h	Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				typhinanan	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	21,394	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm.	
Appiration bazard					Tox. Screening Test)	No
Aspiration hazard:						No



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Symptoms:			ataxia, breathing
			difficulties,
			drowsiness,
			unconsciousness
			, frostbite,
			disturbed heart
			rhythm,
			headaches,
			cramps,
			intoxication,
			dizziness,
			nausea and
			vomiting.

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	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Reproductive toxicity (Developmental toxicity):	NOAEC	21,641	mg/l		OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
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)	
Aspiration hazard:					x <i>i</i>	No
Symptoms:						breathing difficulties, unconsciousnes , frostbite, headaches, cramps, mucou membrane irritation, dizziness, nausea and

Isobutane							
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	
Serious eye damage/irritation:				Rabbit		Not irritant	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative	
				typhimurium	Reverse Mutation Test)	_	



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Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	21,394	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
Aspiration hazard:						No
Symptoms:						unconsciousness , frostbite, headaches, cramps, dizziness, nausea and vomiting.

11.2. Information on other hazards

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply
						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

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
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							n.d.a.
degradability:							
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. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.
Other information:							According to the
							recipe, contains
							no AOX.

Pentane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	9,87	mg/l	Salmo gairdneri		
12.1. Toxicity to fish:	LC50	96h	9,87	mg/l	Oncorhynchus		
					mykiss		
12.1. Toxicity to fish:	LC50	96h	9,99	mg/l	Lepomis		
					macrochirus		
12.1. Toxicity to daphnia:	EC50	48h	9,74	mg/l	Daphnia magna		
12.2. Persistence and		8d	70	%			
degradability:							



vPvB substance

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12.3. Bioaccumulative potential:	Log Pow		3,39				calculated value
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Benzenamine, N-phenyl-	reaction proc	lucto with 2	1 1 trimoth	winantana			
Toxicity / effect	Endpoint		Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	51	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EC10	21d	1,69	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:	Log Koc		3,8				calculated value
12.2. Persistence and degradability:	Log Pow		>6				
12.3. Bioaccumulative potential: 12.5. Results of PBT and vPvB assessment	BCF	42d	411		Cyprinus caprio		Analogous conclusion No PBT substance, No vPvB substance
12.6. Endocrine disrupting properties:							No
Toxicity to bacteria:	EC20	3h	~100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to annelids:	EC10	56d	259	mg/kg	Eisenia foetida	OECD 222 (Earthworm Reproduction Test (Eisenia fetida/Eisenia andrei))	
Putano							
Butane Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	24,11	mg/l	Organishi	QSAR	110163
12.1. Toxicity to daphnia:	LC50	48h	14,22	mg/l		QSAR	
12.3. Bioaccumulative potential:	Log Pow		2,98				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.4. Mobility in soil:							Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No

Propane



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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

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	27,98	mg/l			
12.1. Toxicity to algae:	EC50	96h	7,71	mg/l			
12.2. Persistence and							Readily
degradability:							biodegradable
12.3. Bioaccumulative							A notable
potential:							biological
							accumulation
							potential is not to
							be expected
							(LogPow 1-3).
12.5. Results of PBT							No PBT
and vPvB assessment							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)

16 05 04 gases in pressure containers (including halons) containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

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

Pay attention to local and national official regulations.

If applicable

Return to manufacturer with residual pressure.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

SECTION 14: Transport information

General statements

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:	1950
14.2. UN proper shipping name:	
UN 1950 AEROSOLS	
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
14.5. Environmental hazards:	environmentally hazardous
Tunnel restriction code:	D
Classification code:	5F





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LQ: Transport category:	1 L 2
Transport by sea (IMDG-code) 14.1. UN number or ID number:	1950
14.2. UN proper shipping name: UN 1950 AEROSOLS	
14.3. Transport hazard class(es): 14.4. Packing group:	2.1
14.5. Environmental hazards: Marine Pollutant:	environmentally hazardous
EmS:	F-D, S-U
Transport by air (IATA) 14.1. UN number or ID number:	1050
14.1. UN proper shipping name:	1950
UN 1950 Aerosols, flammable	2.1
14.3. Transport hazard class(es): 14.4. Packing group:	-
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.	
14.7. Maritime transport in bulk according to IMO Freighted as packaged goods rather than in bulk, therefore not applicabl Minimum amount regulations have not been taken into account. Danger code and packing code on request. Comply with special provisions.	

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.

Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

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.):

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
E2		200	500
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 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.



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Directive 2010/75/EU (VOC):

~ 85 %

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

6, 10, 13, 14

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.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 2, H411	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. H361f Suspected of damaging fertility.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Asp. Tox. — Aspiration hazard STOT SE — Specific target organ toxicity - single exposure - narcotic effects Aquatic Chronic — Hazardous to the aquatic environment - chronic Aerosol — Aerosols Flam. Liq. — Flammable liquid Repr. — Reproductive toxicity

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.

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:



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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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