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# 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**

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# Liquimate 7700 Mini Rapid Kartusche

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

Adhesive 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)

ang to Regulation (EO)	
Hazard category	Hazard statement
4	H332-Harmful if inhaled.
2	H319-Causes serious eye irritation.
3	H335-May cause respiratory irritation.
2	H315-Causes skin irritation.
1	H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.
1	H317-May cause an allergic skin reaction.
2	H351-Suspected of causing cancer.
2	H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system).
	Hazard category 4 2 3 2 1 1 2

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



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Danger

H332-Harmful if inhaled. H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317-May cause an allergic skin reaction. H351-Suspected of causing cancer. H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system).

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

P201-Obtain special instructions before use. P260-Do not breathe dust or mist. P280-Wear protective gloves / protective clothing / eye protection / face protection. P284-Wear respiratory protection.

P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313-IF exposed or concerned: Get medical advice / attention.

P405-Store locked up.

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

EUH204-Contains isocyanates. May produce an allergic reaction.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

As from 24 August 2023 adequate training is required before industrial or professional use.

Methylenediphenyl diisocyanate

4,4'-methylenediphenyl diisocyanate

### 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 %).

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

#### n.a. 3.2 Mixtures

4,4'-methylenediphenyl diisocyanate	
Registration number (REACH)	01-2119457014-47-XXXX
Index	615-005-00-9
EINECS, ELINCS, NLP	202-966-0
CAS	101-68-8
content %	75-<100
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H332
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as inhalation)



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Methylenediphenyl diisocyanate	
Registration number (REACH)	01-2120770510-62-XXXX
Index	615-005-00-9
EINECS, ELINCS, NLP	247-714-0
CAS	26447-40-5
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP)	Carc. 2, H351
	Acute Tox. 4, H332
	STOT RE 2, H373
	Eye Irrit. 2, H319
	STOT SE 3, H335
	Skin Irrit. 2, H315
	Resp. Sens. 1, H334
	Skin Sens. 1, H317

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.

### 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

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

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. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms. Irritation of the eyes Irritation of the skin. Allergic reaction

### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

Inhalation: Cortisone spray

onisone spray

**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



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Oxides of nitrogen Hydrogen cyanide Toxic gases Danger of bursting (explosion) when heated

### 5.3 Advice for firefighters

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In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. Full protection, if necessary. 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. Avoid build up of dust. Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.

### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk. Prevent from entering drainage system. Prevent surface and ground-water infiltration, as well as ground penetration.

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

### 6.3 Methods and material for containment and cleaning up

Pick up mechanically 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

Avoid inhalation of the vapours.

Ensure good ventilation.

If applicable, suction measures at the workstation or on the processing machine necessary.

Avoid contact with eyes or skin.

No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.

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. Not to be stored in gangways or stair wells. Store product closed and only in original packing. Protect from direct sunlight and warming. Store in a well-ventilated place.

### Store in a dry place.

7.3 Specific end use(s) No information available at present.

# **SECTION 8: Exposure controls/personal protection**



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# 8.1 Control parameters

Chemical Name	4,4'-methylenediphenyl diisocyanate		Content %:75- <100
WEL-TWA: 0,02 mg/m3 (Isocyana	tes, all (as -NCO)) WEL-STEL: 0,07 mg/m3 (Isoc	vanates, all (as -NCO))	<100
Monitoring procedures:	ISO 16702 (Workplace air quality -		te groups in air using
	<ul> <li>2-(1-methoxyphenylpiperazine and</li> </ul>	liquid chromatography) - 2007	
	MDHS 25/4 (Organic isocyanates i		
	2-(1-methoxyphenylpiperazine coa		
	or into impingers and analysis usin		natography) - 2015 -
	<ul> <li>EU project BC/CEN/ENTR/000/200</li> </ul>	( <i>)</i>	
	<ul> <li>NIOSH 5521 (ISOCYANATES, MO</li> </ul>	,	
	- NIOSH 5522 (ISOCYANATES) - 19		
	- NIOSH 5525 (ISOCYANATES, TO		
	- OSHA 18 (Diisocyanates 2,4-TDI a	,	
	- OSHA 47 (Methylene Bisphenyl Isc	· · · · · · · · · · · · · · · · · · ·	
	I diamine/mol creatinine in urine (At the end of the	Other information: Sen (Iso	cyanates, all (as -
period of exposure)		NCO))	
Chemical Name	Methylenediphenyl diisocyanate		Content %:0,1-<1
WEL-TWA: 0,02 mg/m3 (Isocyana	tes, all (as -NCO)) WEL-STEL: 0,07 mg/m3 (Isoc	yanates, all (as -NCO))	
Monitoring procedures:			
	I diamine/mol creatinine in urine (At the end of the		cyanates, all (as -
period of exposure)		NCO))	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	0,1	mg/l	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	Environment - soil		PNEC	1	mg/kg dw	
	Environment - sporadic (intermittent) release		PNEC	10	mg/l	
Consumer	Human - oral	Short term, systemic effects	DNEL	20	mg/kg bw/day	
Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm2	
Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg bw/day	
Consumer	Human - inhalation	Short term, local effects	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,025	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,025	mg/m3	
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm2	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m3	

(B) WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW =



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"Arbeitsplatzgrenzwert" (workplace limit value, Germany).

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(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: Protective nitrile gloves (EN 374). Minimum layer thickness in mm: 0,35 Protective gloves made of fluorocarbon rubber (EN 374). Minimum layer thickness in mm: 0.4 Protective gloves in butyl rubber (EN 374). Protective gloves made of polychloroprene (EN 374). Protective PVC gloves (EN 374). Minimum layer thickness in mm: 0.5 Permeation time (penetration time) in minutes: 480 Protective hand cream recommended. 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. 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 ABEK-P2 (EN 14387), code colour brown, grey, yellow, green, white Observe wearing time limitations for respiratory protection equipment. Thermal hazards: Not applicable

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



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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.

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### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Odour threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: 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:

Paste, solid. Beige Characteristic Not determined Not determined Not determined 207,8 °C ((Particulars of main substances contained)) >204 °C (Pensky-Martens, closed cup) Not determined Not determined 0.4 Vol-% Not determined <0,0001 hPa 8,5 ((Particulars of main substances contained)) 1,3 g/cm3 Not determined Not determined Not determined Not determined Not determined Not determined 30000 mPas Product is not explosive. No

Not determined Not determined Not determined Not determined

### **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

reacts with water **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. Polymerisation possible with: Water Developement of: Carbon dioxide CO2 formation in closed tanks causes pressure to rise. Pressure increase will result in danger of bursting. **10.4 Conditions to avoid** 

# 10.4 Conditions to avoid

See also section 7.



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Protect from direct sunlight. Keep away from heat. Protect from frost. Protect from humidity.

### **10.5 Incompatible materials**

See also section 7. Aluminium Brass Copper Zinc Amines Ammonia Alcohols Bases Acids Oxidizing agents Water

### **10.6 Hazardous decomposition products**

See also section 5.2 No decomposition when used as directed.

# SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

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:	ATE	11	mg/l/4h			calculated value,
						Vapours
Acute toxicity, by inhalation:	ATE	1,5	mg/l/4h			calculated value,
						Dust
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.

### 4,4'-methylenediphenyl diisocyanate

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	Regulation (EC)	Analogous
					440/2008 B.1 (ACUTE	conclusion
					ORAL TOXICITY)	
Acute toxicity, by dermal route:	LD50	>9400	mg/kg	Rabbit	OECD 402 (Acute	Analogous
					Dermal Toxicity)	conclusion
Acute toxicity, by inhalation:	ATE	1,5	mg/l/4h			Aerosol, Expert
			_			judgement.
Acute toxicity, by inhalation:	LC50	0,368	mg/l/4h	Rat	OECD 403 (Acute	Aerosol, Does
			_		Inhalation Toxicity)	not conform with
						EU classification.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion



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Respiratory or skin				Guinea pig		Yes (inhalation)
sensitisation:				Guinea pig		
Respiratory or skin				Mouse	OECD 429 (Skin	Skin Sens. 1
sensitisation:					Sensitisation - Local	
					Lymph Node Assay)	
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian	Negative
					Erythrocyte	
					Micronucleus Test)	
Germ cell mutagenicity:				Rat	OECD 489 (In Vivo	Negative
					Mammalian Alkaline	
Germ cell mutagenicity:				Salmonella	Comet Assay) OECD 471 (Bacterial	Negative,
Gerni cell indiagenicity.				typhimurium	Reverse Mutation Test)	Analogous
				typnintunun	Reverse Mutation Test)	conclusion
Carcinogenicity:				Rat	OECD 453 (Combined	Limited evidence
					Chronic	of a carcinogenic
					Toxicity/Carcinogenicity	effect., Aerosol,
					Studies)	Analogous
						conclusion
Reproductive toxicity:	NOAEL	4	mg/m3	Rat	OECD 414 (Prenatal	Aerosol,
					Developmental Toxicity	Analogous
Creatile target argen tovicity		0.0		Det	Study)	conclusion
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	0,2	mg/m3	Rat	OECD 453 (Combined Chronic	Aerosol, Analogous
repeated exposure (STOT-RE).					Toxicity/Carcinogenicity	conclusion
					Studies)	Conclusion
Specific target organ toxicity -	LOAEL	1		Rat	OECD 453 (Combined	Aerosol,
repeated exposure (STOT-RE):					Chronic	Analogous
					Toxicity/Carcinogenicity	conclusion
					Studies)	
Specific target organ toxicity -						Target organ(s):
single exposure (STOT-SE),						respiratory
inhalative:						system, Irritation
						of the respiratory tract
Specific target organ toxicity -						Target organ(s):
repeated exposure (STOT-RE),						respiratory
inhalat.:						system, Positive
			I			
Methylenediphenyl diisocyana					_	
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route: Acute toxicity, by inhalation:	LD50 LC50	>2000 0,49	mg/kg	Rabbit		Does not
Acute toxicity, by innalation.	LC50	0,49	mg/l/4h			conform with EU
						classification.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	· · · · · · · · · · · · · · · · · · ·	Intensively irritant
Symptoms:						asthmatic
						symptoms,
						coughing,
						headaches,
						mucous membrane
						irritation
L	1	<u> </u>				intation

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).							
Liquimate 7700 Mini Rap	id Kartusche						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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n.d.a.
n.d.a.
n.d.a.
n.d.a.
n.d.a.
n.d.a.
n.d.a.
n.d.a.

#### 4.4'-methylenediphenyl dijsocyanate

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Other information:	H (Henry)		0,0229				
Other information:							According to experience available to dat polycarbamide inert and non- degradable., With water at th interface, transforms slowly with formation of CO2 into a firm insoluble reaction product with a high melting point
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Brachydanio rerio	OECD 203 (Fish,	(polycarbamide Analogous
	2030	9011	>1000		Brachydanio reno	Acute Toxicity Test)	conclusion
12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradability - Modified MITI Test (II))	Not biodegradable, With water at the interface, transforms slowly with formation of CO2 into a firm insoluble reaction product with a high melting point (polycarbamide According to experience available to dar polycarbamide inert and non- degradable.
12.1. Toxicity to daphnia:	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion



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12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>10	mg/l	Daphnia magna	OECD 202	Analogous
						(Daphnia sp.	conclusion
						Acute	
						Immobilisation	
						Test)	
12.3. Bioaccumulative	Log Pow		5,22				A notable
potential:							biological
							accumulation
							potential has to
							be expected
							(LogPow > 3).
12.1. Toxicity to algae:	ErC50	72h	>1640	mg/l	Desmodesmus	OECD 201 (Alga,	Analogous
					subspicatus	Growth Inhibition Test)	conclusion
12.3. Bioaccumulative	BCF	28d	200		Cyprinus caprio	IUCLID Chem.	Not to be
potential:						Data Sheet (ESIS)	expected
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Toxicity to annelids:	EC50	14d	>1000	mg/kg	Eisenia foetida	OECD 207	Analogous
						(Earthworm,	conclusion
						Acute Toxicity	
						Tests)	
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209	Analogous
						(Activated Sludge,	conclusion
						Respiration	
						Inhibition Test	
						(Carbon and	
						Àmmonium	
						Oxidation))	
Toxicity to annelids:	NOEC/NOEL	14d	> 1000	mg/kg	Lumbricus	OECD 207	Analogous
					terrestris	(Earthworm,	conclusion
						Acute Toxicity	
						Tests)	

Methylenediphenyl diisocyanate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Brachydanio rerio		
12.1. Toxicity to daphnia:	EC50	24h	>750	mg/l	Daphnia pulex	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	LC0	72h	1640	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

# **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)



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08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

(GB)

#### E.g. dispose at suitable refuse site. 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 transpor	rt must be followed.

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

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 the protection of young people at work (national implementation of the Directive 94/33/EC)! Regulation (EC) No 1907/2006, Annex XVII

4,4 -methylenediphenyl diisocyanate

Methylenediphenyl diisocyanate

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

Directive 2010/75/EU (VOC):

0 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

# **SECTION 16: Other information**



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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 (EC) No. 1272/2008 (CLP)	Evaluation method used
Acute Tox. 4, H332	Classification according to calculation procedure.
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Resp. Sens. 1, H334	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Carc. 2, H351	Classification according to calculation procedure.
STOT RE 2, H373	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).

H373 May cause damage to organs through prolonged or repeated exposure by inhalation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

Acute Tox. — Acute toxicity - inhalation Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Skin Irrit. — Skin irritation Resp. Sens. — Respiratory sensitization Skin Sens. — Skin sensitization Carc. — Carcinogenicity STOT RE — Specific target organ toxicity - repeated exposure

### 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) ATF 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) BSEF The International Bromine Council 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



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dw dry weight						
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance						
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 describe the product with regard to the peacesary safety presoutions - 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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# 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**

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# Liquimate 7700 Mini Rapid Kartusche

Pentaerythritol, propoxylated Registration number (ECHA): 01-2119457860-34-XXXX Index: ---EINECS, ELINCS, NLP: 500-030-9 (NLP) CAS: 9051-49-4

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

Adhesive 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) The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements
Labeling according to Regulation (EC) 1272/2008 (CLP)
Not applicable
2.3 Other hazards
No vPvB substance
No PBT substance

# **SECTION 3: Composition/information on ingredients**

3.1 Substances



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Pentaerythritol, propoxylated	
Registration number (REACH)	01-2119457860-34-XXXX
Index	
EINECS, ELINCS, NLP	500-030-9 (NLP)
CAS	9051-49-4
content %	100
Classification according to Regulation (EC) 1272/2008 (CLP)	

# 3.2 Mixtures

n.a.

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.

# **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

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

If swallowed, rinse mouth with water (only if the person is conscious).

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.

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

Water jet spray/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 Toxic gases

Danger of bursting (explosion) when heated

### **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.

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

Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution - risk of slipping.

### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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

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

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) 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 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

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Keep protected from direct sunlight and temperatures over 50°C.

Protect from humidity.

Recommended storage temperature: 18 - 30°C

# 7.3 Specific end use(s)

No information available at present.

### **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

---

# 8.2 Exposure controls 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work.



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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: Protective nitrile gloves (EN 374). Minimum layer thickness in mm: 0,35 Protective gloves made of fluorocarbon rubber (EN 374). Minimum layer thickness in mm: 0,4 Protective gloves in butyl rubber (EN 374). Protective gloves made of polychloroprene (EN 374). Protective PVC gloves (EN 374). Minimum layer thickness in mm: 0,5 Permeation time (penetration time) in minutes: 480 Protective hand cream recommended. 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.

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

Respiratory protection: If fumes build up, use suitable breathing mask. Filter A2 P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

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:	Liquid
Colour:	Black
Odour:	Mild
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	-10 °C
Initial boiling point and boiling range:	Not determined
Flash point:	192 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	n.a.
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined



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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 1,15 (relative density ) n.a. Not determined Mixable Not determined Not determined Not determined Not determined Product is not explosive. No

Not determined 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** reacts with water

Developement of: Carbon dioxide CO2 formation in closed tanks causes pressure to rise. Pressure increase will result in danger of bursting.

# 10.4 Conditions to avoid

See also section 7. Keep away from heat. Protect from humidity.

### **10.5 Incompatible materials**

See also section 7. Water Alcohols Amines Ammonia Bases Acids Oxidizing agents Aluminium Brass Copper Zinc **10 6 Hazardous de** 

### **10.6 Hazardous decomposition products**

See also section 5.2

No decomposition when used as directed.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

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

Pentaerythritol, propoxylated						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	20800	mg/kg	Rat		
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.



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	n.d.a.
	n.d.a.
	n.d.a.
	n.d.a.
	n.d.a.
	n.d.a.
	n.d.a.
	n.d.a.
	n.d.a.
	n.d.a.

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification). Pentaerythritol, propoxylated Unit Toxicity / effect Endpoint Time Value Organism Test method Notes 12.1. Toxicity to fish: I C50 >1000 Pimephales 96h mg/l promelas 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. Other adverse n.d.a. effects: OECD 105 (Water Mixable22°C Water solubility: Solubility)

# **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)

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

# For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:

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**



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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 transport	must be followed				
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Non-dangerous material according to Transport Regulations.					
	Degulatory information				
SECTION 15: Regulatory information					

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

Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.

Г	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								
			(tonnes) for the application of - Lower-tier requirements	(tonnes) for the application of - Upper-tier requirements					
-	22	Methanol		500	5000				
	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):

0 %

# 15.2 Chemical safety assessment

**SECTION 16: Other information** 

Revised sections:

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16

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).

# Any abbreviations and acronyms used in this document:

acc., acc. to according, according 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



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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.

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