

## 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

**Liquimate 2-K Power Kleber 25 mL**  
**Art.: 6179 (A)**

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

**Adhesive**  
**Uses advised against:**  
 No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH  
 Jergo-Walanda-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) 700 724 112 112 (LMR)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Hazard class	Hazard category	Hazard statement
Flam. Liq.	2	H225-Highly flammable liquid and vapour.
Skin Corr.	1A	H314-Causes severe skin burns and eye damage.
STOT SE	3	H335-May cause respiratory irritation.
Eye Dam.	1	H318-Causes serious eye damage.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

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



Danger

H225-Highly flammable liquid and vapour. H314-Causes severe skin burns and eye damage. H335-May cause respiratory irritation. H317-May cause an allergic skin reaction. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.  
 P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260-Do not breathe vapours or spray.  
 P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves / protective clothing / eye protection / face protection.  
 P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P306+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.  
 P405-Store locked up.  
 P501-Dispose of contents / container to an approved waste disposal facility.

Methyl methacrylate  
 Methacrylic acid  
 Ethoxylated trimethylolpropane triacrylate  
 .alpha.,.alpha.-dimethylbenzyl hydroperoxide

#### 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 Substance

n.a.

#### 3.2 Mixture

Methyl methacrylate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	---
Index	607-035-00-6
EINECS, ELINCS, NLP	201-297-1
CAS	80-62-6
content %	50-75
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317

#### Methacrylic acid

Registration number (REACH)	---
Index	607-088-00-5
EINECS, ELINCS, NLP	201-204-4
CAS	79-41-4
content %	1-10

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Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318
Registration number (REACH)	---
EINECS, ELINCS, NLP	500-066-5 (NLP)
CAS	28961-43-5
content %	1- <10
Classification according to Regulation (EC) 1272/2008 (CLP)	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Registration number (REACH)	---
EINECS, ELINCS, NLP	204-681-4
CAS	128-37-0
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Acute 1, H400 (M=F) Aquatic Chronic 1, H410 (M=F)
Registration number (REACH)	---
EINECS, ELINCS, NLP	617-002-00-8
CAS	201-254-7
content %	80-15-9
Classification according to Regulation (EC) 1272/2008 (CLP)	1- <2,5 Orig. Perox. Type E, H242 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Chronic 2, H411 Flam. Liq. 3, H226 Asp. Tox. 1, H304

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

#### 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.

Contaminations not treated lead to wounds difficult to heal.

##### Eye contact

Remove contact lenses.  
 Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

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Protect uninjured eye.  
 Follow-up examination by an ophthalmologist.  
**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.  
 Corrosive burns on skin as well as mucous membrane possible.  
 Risk of serious damage to eyes.  
 Corneal damage.  
 Danger of blindness.  
 Ingestion:  
 pain in the mouth and throat  
 stomach pain  
 Oesophageal perforation  
 Gastric perforation

#### 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/CO<sub>2</sub>/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

##### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.  
 Protective respirator with independent air supply.  
 According to size of fire  
 Full protection, if necessary.  
 Cool container at risk with water.  
 Dispose of contaminated extinction water according to official regulations.

#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Keep unprotected persons away.  
 Remove possible causes of ignition - do not smoke.  
 Ensure sufficient supply of air.  
 Avoid inhalation, and contact with eyes or skin.  
 If applicable, caution - risk of slipping.

##### 6.2 Environmental precautions

Prevent from entering drainage system.  
 If leakage occurs, dam up.  
 Prevent surface and ground-water infiltration, as well as ground penetration.  
 If accidental entry into drainage system occurs, inform responsible authorities.

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

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.  
 Fill the absorbed material into lockable containers.

##### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

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

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.  
 Avoid inhalation of the vapours.  
 Avoid contact with eyes or skin.  
 Keep away from sources of ignition. - Do not smoke.  
 Take measures against electrostatic charging, if appropriate.  
 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.  
 Keep away from food, drink and animal feedings.  
 Wash hands before breaks and at end of work.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.  
 Store product closed and only in original packing.  
 Not to be stored in gangways or stair wells.  
 Do not store with flammable or self-igniting materials.  
 Observe special storage conditions.  
 Store in a well ventilated place.  
 Protect from direct sunlight and warming.  
 Store cool.

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Chemical Name	Methyl methacrylate	Content %: 50- <75
WEL-TWA: 50 ppm (208 mg/m3) (WEL), 50 ppm (EU)   WEL-STEL: 100 ppm (416 mg/m3) (WEL), 100 ppm (EU)		---
Monitoring procedures:	- Compur - KITA-184 S (548 618) - NIOSH 2537 (Methyl and ethyl methacrylate) - 2003 - EU project - BC/CEN/ENTR/000/2002-16 card 109-2 (2004)	
BMGV: ---	Other information: ---	
Chemical Name	Methacrylic acid	Content %: 1-10
WEL-TWA: 20 ppm (72 mg/m3)   WEL-STEL: 40 ppm (143 mg/m3)		---
Monitoring procedures:	---	
BMGV: ---	Other information: ---	
Chemical Name	2,6-di-tert-butyl-p-cresol	Content %: 1-2,5
WEL-TWA: 10 mg/m3   WEL-STEL: ---		---
Monitoring procedures:	---	
BMGV: ---	Other information: ---	

Methyl methacrylate Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note

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	Environment - freshwater	PNEC	0,94	mg/l	
	Environment - marine	PNEC	0,094	mg/l	
	Environment - sediment	PNEC	5,74	mg/kg	
Industrial / commercial	Human - dermal	DNEL	1,5	mg/kg	Long term, local effects
Industrial / commercial	Human - inhalation	DNEL	210	mg/m3	Long term, local effects
Industrial / commercial	Human - inhalation	DNEL	210	mg/m3	Long term, systemic effects
Industrial / commercial	Human - dermal	DNEL	13,67	mg/kg	Long term, systemic effects

Methacrylic acid Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,82	mg/l	
	Environment - marine		PNEC	0,82	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,82	mg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
Consumer	Human - inhalation	Long term, systemic effects	PNEC	1,2	mg/kg dry weight	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	6,3	mg/m3	
Consumer	Human - dermal	Long term, local effects	DNEL	6,55	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,55	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	88	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	29,6	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	4,25	mg/kg bw/d	

2,6-di-tert-butyl-p-cresol Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - soil		PNEC	1,04	mg/kg ww	
	Environment - soil treatment plant		PNEC	100	mg/l	
	Environment - sewage treatment plant		PNEC	1,29	mg/kg ww	
	Environment - sediment		PNEC	0,4	µg/l	
	Environment - marine		PNEC	4	µg/l	
	Environment - periodic release		PNEC	4	µg/l	
	Environment - freshwater		PNEC	16,7	mg/kg	
	Environment - oral (animal feed)		PNEC	1,23	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,74	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5,8	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,3	mg/kg bw/day	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40, AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).  
 (6) = 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), | BM(GV) = 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 repeated 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. BS EN 14042.  
 BS 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 feedstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

**Eye/face protection:**  
 Tight fitting protective goggles with side protection (EN 166).  
**Skin protection - Hand protection:**  
 Chemical resistant protective gloves (EN 374).  
 Recommended  
 Protective gloves in butyl rubber (EN 374).  
 Minimum layer thickness in mm:  
 0.7  
 Permeation time (penetration time) in minutes:  
 > 60  
 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.  
 The recommended maximum wearing time is 50% of breakthrough time.  
 Protective hand cream recommended.

**Skin protection - Other:**  
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).  
**Respiratory protection:**  
 If OES or MEL is exceeded.  
 Gas mask filter A (EN 14387), code colour brown  
 Observe wearing time limitations for respiratory protection equipment.  
**Thermal hazards:**  
 Not applicable  
 Additional information on hand protection - No tests have been performed.  
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.  
 Selection of materials derived from glove manufacturer's indications.  
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.  
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.  
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical state:**  
 Paste, liquid.  
**Colour:**  
 White  
**Odour:**  
 Slightly, Penetrating  
 Not determined  
**pH-value:**  
 3-4  
**Melting point/freezing point:**  
 Not determined  
**Initial boiling point and boiling range:**  
 101 °C  
**Flash point:**  
 Not determined  
**Evaporation rate:**  
 n.a.  
**Flammability (solid, gas):**  
 2.1 Vol-%  
**Lower explosive limit:**  
 12.5 Vol-%  
**Upper explosive limit:**  
 47 nPa (20 °C)  
**Vapour pressure:**  
 Not determined  
**Vapour density (air = 1):**  
 0.95-1.05 (25 °C, relative density)  
**Density:**  
 n.a.  
**Bulk density:**  
 Not determined  
**Solubility(ies):**  
 Water soluble  
 Not miscible  
**Partition coefficient (n-octanol/water):**  
 Not determined  
**Auto-ignition temperature:**  
 430 °C (Ignition temperature)  
**Auto-ignition temperature:**  
 No  
**Decomposition temperature:**  
 Not determined  
**Viscosity:**  
 4000-8000 cP (25 °C, Viscous)  
**Explosive properties:**  
 Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture.  
 No  
**Oxidising properties:**  
 Not determined  
**9.2 Other information**  
**Miscibility / solvent:**  
 Not determined  
**Fat solubility / solvent:**  
 Not determined  
**Conductivity:**  
 Not determined  
**Surface tension:**  
 Not determined  
**Solvents content:**  
 Not determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

Heating, open flame, ignition sources

### 10.5 Incompatible materials

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

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**11.1 Information on toxicological effects**

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

Liquimate 2-K Power Kleber 25 mL

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg		calculated value	
Acute toxicity, by dermal route:	ATE	>2000	mg/kg		calculated value	
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h		Vapours	
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h		calculated value, Aerosol	
Skin corrosion/irritation:		n.d.a.			n.d.a.	
Serious eye damage/irritation:		n.d.a.			n.d.a.	
Respiratory or skin sensitisation:		n.d.a.			n.d.a.	
Germ cell mutagenicity:		n.d.a.			n.d.a.	
Carcinogenicity:		n.d.a.			n.d.a.	
Reproductive toxicity:		n.d.a.			n.d.a.	
Specific target organ toxicity - single exposure (STO1-SE):		n.d.a.			n.d.a.	
Specific target organ toxicity - repeated exposure (STOT-RE):		n.d.a.			n.d.a.	
Aspiration hazard:		n.d.a.			n.d.a.	
Symptoms:		n.d.a.			n.d.a.	

Methyl methacrylate Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Serious eye damage/irritation:				Rabbit		Mild irritant
Respiratory or skin sensitisation:				Human being		Sensitising (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:						Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	2000	ppm	Rat		
Aspiration hazard:						
Symptoms:						No indications of such an effect, breathing difficulties, respiratory distress, drowsiness, drop in blood pressure, coughing, headaches, fatigue, mucous membrane irritation, watering eyes, mental confusion
Specific target organ toxicity - repeated exposure (STOT-RE), Inhalat.:	NOAEL	1000	ppm	Mouse		14w, 6h/d, 5d/w

Methacrylic acid Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1320	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	

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Acute toxicity, by dermal route:	LD50	500-1000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	7,1	mg/l/4h	Rat		Does not conform with EU classification.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Corrosive
Serious eye damage/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Risk of serious damage to eyes.
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitising

**2,6-di-tert-butyl-p-cresol**

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2930	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin sensitisation:				Human being	(Draize-Test)	No (skin contact)
Germ cell mutagenicity:					(Ames-Test)	Negative
Carcinogenicity:	NOAEL	247	mg/kg bw/d	Mouse	in vivo	Negative
Reproductive toxicity (Developmental toxicity):	NOAEL	100	mg/kg	Rat		
Reproductive toxicity (Effects on fertility):	NOAEL	500	mg/kg	Rat		
Specific target organ toxicity - repeated exposure (STOT-RE):	NOEL	25	mg/kg	Rat		(28 d)
Aspiration hazard:						No mucous membrane irritation
Symptoms:						

**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 degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment:							n.d.a.
12.6. Other adverse effects:							n.d.a.

**Methyl methacrylate**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	130	mg/l	Pimephales promelas	OECD 203 (Fish Acute Toxicity Test)	

12.1. Toxicity to algae:	EC50	72h	>110	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	Readily biodegradable
12.1. Toxicity to algae:	EC50	96h	37	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:		7d	37	mg/l	Scenedesmus quadricauda	OECD 302 B (Inherent Biodegradability - Zahn-Zählens/EMPA Wellens/EMPA Test)	
12.2. Persistence and degradability:		28d	>95	%			
12.3. Bioaccumulative potential:	Log Pow		1,32-1,38			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	A notable biological accumulation potential is not to be expected (LogPow 1-3). No PBT substance. No vPvB substance
12.5. Results of PBT and vPvB assessment							

Methacrylic acid Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50		85	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50		>130	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50		45	mg/l	Pseudokirchneriella subcapitata		

2,6-di-tert-butyl-p-cresol Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.4. Mobility in soil:	Log Koc		3,5-4,2				
Other information:	Koc		14750				
Other information:	Log Koc		3,5-4,2				
12.1. Toxicity to fish:	LC50	96h	>0,57	mg/l	Brachydanio rerio	84/449/EEC C.1	
12.1. Toxicity to fish:	NOEC/NOEL	42d	0,053	mg/l	Oryzias latipes	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.3. Bioaccumulative potential:			230-2500		Cyprinus carpio	OECD 305 (Bioconcentration - Flow-Through Fish Test)	56d
12.1. Toxicity to daphnia:	EC50	48h	0,45	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,023	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,4	mg/l	Desmodesmus subspicatus	84/449/EEC C.3	
12.1. Toxicity to algae:	EC50	72h	>0,4	mg/l	Desmodesmus subspicatus	84/449/EEC C.3	

12.2. Persistence and degradability:		28d	4,5	%		OECD 307 C (Ready Biodegradability - Modified MITI Test (I))	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		5,1				High
12.3. Bioaccumulative potential:	BCF		>2000		Cyprinus caprio	OECD 305 (Bioconcentration - Flow-Through Fish Test)	
12.4. Mobility in soil:	Koc		14750				No PBT substance
12.5. Results of PBT and vPvB assessment	EC50	3h	>10000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:							
Other information:					AOX		Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
Water solubility:				g/l	0,00076		

**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. (2014/065/EU)  
 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.  
 Hardened product  
 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.  
 Do not perforate, cut up or weld uncleaned container.  
 Residues may present a risk of explosion.

**SECTION 14: Transport information**

**General statements**  
 14.1. UN number:  
**Transport by road/by rail (ADR/RID)**  
 14.2. UN proper shipping name:

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UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYLMETHACRYLATE,METHACRYLIC ACID, INHIBITED)

14.3. Transport hazard class(es): 3(8)

14.4. Packing group: II

Classification code: FC

LO: 1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code: DIE

#### Transport by sea (IMDG-code)

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYLMETHACRYLATE,METHACRYLIC ACID, INHIBITED)

14.3. Transport hazard class(es): 3(8)

14.4. Packing group: II

EmS: F-E, S-C

14.5. Environmental hazards: n.a

Not applicable

Not applicable

#### Transport by air (IATA)

14.2. UN proper shipping name: Flammable liquid, corrosive, n.o.s. (METHYLMETHACRYLATE,METHACRYLIC ACID, INHIBITED)

14.3. Transport hazard class(es): 3(8)

14.4. Packing group: II

14.5. Environmental hazards: Not applicable

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

Freighted as packaged goods rather than in bulk, therefore not applicable.

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.

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 dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
P5c		5000	50000

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):

70 %

Observe incident regulations.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

### SECTION 16: Other information

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UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYLMETHACRYLATE,METHACRYLIC ACID, INHIBITED)

14.3. Transport hazard class(es): 3(8)

14.4. Packing group: II

Classification code: FC

LO: 1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code: DIE

#### Transport by sea (IMDG-code)

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYLMETHACRYLATE,METHACRYLIC ACID, INHIBITED)

14.3. Transport hazard class(es): 3(8)

14.4. Packing group: II

EmS: F-E, S-C

14.5. Environmental hazards: n.a

Not applicable

Not applicable

#### Transport by air (IATA)

14.2. UN proper shipping name: Flammable liquid, corrosive, n.o.s. (METHYLMETHACRYLATE,METHACRYLIC ACID, INHIBITED)

14.3. Transport hazard class(es): 3(8)

14.4. Packing group: II

14.5. Environmental hazards: Not applicable

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

Freighted as packaged goods rather than in bulk, therefore not applicable.

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.

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 dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
P5c		5000	50000

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):

70 %

Observe incident regulations.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

### SECTION 16: Other information

Revised sections:  
 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
Flam. Liq. 2, H225	Classification based on test data.
Skin Corr. 1A, H314	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Eye Dam. 1, H318	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

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

H314 Causes severe skin burns and eye damage.

H225 Highly flammable liquid and vapour.

H242 Heating may cause a fire.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid  
 Skin Corr. — Skin corrosion  
 STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation  
 Eye Dam. — Serious eye damage  
 Skin Sens. — Skin sensitization  
 Aquatic Chronic — Hazardous to the aquatic environment - chronic  
 Skin Irrit. — Skin irritation  
 Acute Tox. — Acute toxicity - oral  
 Acute Tox. — Acute toxicity - dermal  
 Acute Tox. — Acute toxicity - inhalation  
 Eye Irrit. — Eye irritation  
 Aquatic Acute — Hazardous to the aquatic environment - acute  
 Org. Perox. — Organic peroxide  
 STOT RE — Specific target organ toxicity - repeated exposure  
 Asp. Tox. — Aspiration hazard

Any abbreviations and acronyms used in this document:

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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  
 approx. approximately  
 Art., Art. No. Article number  
 ASTM ASTM International (American Society for Testing and Materials)  
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
 BAUA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BSEF The International Bromine Council  
 bw body weight  
 CAS Chemical Abstracts Service  
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 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)  
 EU European Union  
 et cetera  
 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  
 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  
 REACH Registration, 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

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

**Liquimate 2-K Power Kleber 25 mL**  
**Art.: 6179 (B)**

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

**Adhesive**  
 No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH  
 Jergo-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) 700 724 112 112 (LMR)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Hazard class	Hazard category	Hazard statement
Flam. Liq.	2	H225-Highly flammable liquid and vapour.
STOT SE	3	H335-May cause respiratory irritation.
Skin Irrit.	2	H315-Causes skin irritation.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

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



Danger

H225-Highly flammable liquid and vapour. H335-May cause respiratory irritation. H315-Causes skin irritation. H317-May cause an allergic skin reaction. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P281-Avoid breathing vapours or spray. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312-Call a POISON CENTRE / doctor if you feel unwell. P405-Store locked up. P501-Dispose of contents / container to an approved waste disposal facility.

Methyl methacrylate

#### 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 Substance

#### 3.2 Mixture

Methyl methacrylate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	---
Index	607-035-00-6
EINECS, ELINCS, NLP	201-297-1
CAS	80-62-6
content, %	60-75
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317
3.5-diethyl-1,1-dihydro-1-phenyl-2-propylpyridine	---
Registration number (REACH)	---
Index	252-091-3
EINECS, ELINCS, NLP	34562-31-7
CAS	1-<10
content, %	---
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H312 Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315

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<b>2,6-di-tert-butyl-p-cresol</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	204-881-4
<b>CAS</b>	128-37-0
<b>content %</b>	0,1-22,5
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

#### 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.

##### 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/CO<sub>2</sub>/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

Explosive vapour/air or gas/air mixtures.

##### 5.3 Advice for firefighters

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

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

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#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Keep unprotected persons away.

Remove sufficient causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

##### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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

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

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

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

Fill the absorbed material into lockable containers.

##### 6.4 Reference to other sections

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

#### SECTION 7: Handling and storage

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

##### 7.1 Precautions for safe handling

###### 7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

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 feedingsuffs.

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

###### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Do not store with flammable or self-igniting materials.

Protect from direct sunlight and warming.

Observe special storage conditions.

Store in a well ventilated place.

Protect from direct sunlight and warming.

Store cool.

###### 7.3 Specific end use(s)

No information available at present.

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

##### 8.1 Control parameters

Chemical Name

Methyl methacrylate

Content % 60-  
<75

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WEL-TWA: 50 ppm (208 mg/m <sup>3</sup> ) (WEL), 50 ppm (EU)   WEL-STEL: 100 ppm (416 mg/m <sup>3</sup> ) (WEL), 100 ppm (EU)	---
Monitoring procedures:	- Compur - KITA-184 S (548.618) - NIOSH 2537 (Methyl and ethyl methacrylate) - 2003 - EU project - BC/CEN/ENTR/000/2002-16 card 109-2 (2004)
BMGV: ---	Other information: ---
<b>Chemical Name</b>	2,6-di-tert-butyl-p-cresol
WEL-TWA: 10 mg/m <sup>3</sup>	WEL-STEL: ---
Monitoring procedures:	---
BMGV: ---	Other information: ---
	Content %: 0,1- <2,5

Methyl methacrylate	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,94	mg/l	
	Environment - marine		PNEC	0,094	mg/l	
	Environment - sediment		PNEC	5,74	mg/kg	
	Human - dermal	Long term, local effects	DNEL	1,5	mg/kg	
	Human - inhalation	Long term, local effects	DNEL	210	mg/m <sup>3</sup>	
	Human - inhalation	Long term, systemic effects	DNEL	210	mg/m <sup>3</sup>	
	Human - dermal	Long term, systemic effects	DNEL	13,67	mg/kg	

2,6-di-tert-butyl-p-cresol	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - soil		PNEC	1,04	mg/kg wwt	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment		PNEC	1,29	mg/kg wwt	
	Environment - marine		PNEC	0,4	µg/l	
	Environment - periodic release		PNEC	4	µg/l	
	Environment - freshwater		PNEC	4	µg/l	
	Environment - oral (animal feed)		PNEC	16,7	mg/kg	
Consumer	Environment - soil	Long term, systemic effects	DNEL	1,23	mg/m <sup>3</sup>	
	Human - inhalation	Long term, systemic effects	DNEL	1,74	mg/m <sup>3</sup>	
Consumer	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5,8	mg/m <sup>3</sup>	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,3	mg/kg bw/day	

(8) WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40, AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany)  
 (9) = 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 2017/164/EU, 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 Cs/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/CE), (9) = Respirable fraction (2017/164/EU, 2017/2398/CE), (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.

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\*\* = The exposure limit for this substance is repeated 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. BS EN 14042.  
 BS 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 feedstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.  
 Eye/face protection:  
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:  
 Chemical resistant protective gloves (EN 374).  
 Recommended  
 Protective gloves in butyl rubber (EN 374).  
 Minimum layer thickness in mm:  
 0,7  
 Permeation time (penetration time) in minutes:  
 > 60

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

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

Respiratory protection:  
 If OES or MEL is exceeded.  
 Gas mask filter A (EN 14387), code colour brown  
 Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:  
 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

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Physical state: Paste, liquid.  
 Colour: Light yellow  
 Odour: Slightly Penetrating  
 Not determined  
 pH value: 4.5-5.5  
 Melting point/freezing point: Not determined  
 Initial boiling point and boiling range: 101 °C  
 Flash point: 11 °C (closed cup)  
 Evaporation rate: Not determined  
 Flammability (solid, gas): n.a.  
 Lower explosive limit: 2.1 Vol-%  
 Upper explosive limit: 12.5 Vol-%  
 Vapour pressure: 47 hPa (20°C)  
 Vapour density (air = 1): Not determined  
 Density: 0.9-1 (25°C, relative density)  
 Bulk density: n.a.  
 Solubility(ies): Not determined  
 Water solubility: Not miscible  
 Partition coefficient (n-octanol/water): Not determined  
 Auto-ignition temperature: 430 °C (ignition temperature)  
 No  
 Decomposition temperature: Not determined  
 40000-80000 cP (25°C)  
 Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture.  
 No

### 9.2 Other information

Miscibility: Not determined  
 Fat solubility / solvent: Not determined  
 Conductivity: Not determined  
 Surface tension: Not determined  
 Solvents content: Not determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

Heating, open flame, ignition sources

### 10.5 Incompatible materials

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

Liquimate 2-K Power Kleber 25 mL Art.: 6179 (B)				
Toxicity / effect	Endpoint	Value	Unit	Notes
Acute toxicity, by oral route:	A TE	>2000	mg/kg	calculated value
Acute toxicity, by dermal route:	A TE	>2000	mg/kg	calculated value

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Acute toxicity, by inhalation:				n.d.a.
Skin corrosion/irritation:				n.d.a.
Serious eye damage/irritation:				n.d.a.
Respiratory or skin sensitisation:				n.d.a.
Germ cell mutagenicity:				n.d.a.
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.

Methyl methacrylate				
Toxicity / effect	Endpoint	Value	Unit	Notes
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	OECD 402 (Acute Dermal Toxicity)
Serious eye damage/irritation:				Mild irritant
Respiratory or skin sensitisation:				Sensitising (skin contact)
Germ cell mutagenicity:				Negative
Carcinogenicity:				Negative
Reproductive toxicity:				Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	2000	ppm	
Aspiration hazard:				OECD 471 (Bacterial Reverse Mutation Test)
Symptoms:				No indications of such an effect.

				breathing difficulties, respiratory distress, drowsiness, drop in blood pressure, coughing, headaches, fatigue, mucous membrane irritation, watering eyes, mental confusion
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	1000	ppm	14w, 6h/d, 5d/w

3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine				
Toxicity / effect	Endpoint	Value	Unit	Notes
Acute toxicity, by oral route:	LD50	>500	mg/kg	
Acute toxicity, by dermal route:	LD50	>1000	mg/kg	

2,6-di-tert-butyl-p-cresol				
Toxicity / effect	Endpoint	Value	Unit	Notes
Acute toxicity, by oral route:	LD50	>2830	mg/kg	OECD 401 (Acute Oral Toxicity)
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	OECD 402 (Acute Dermal Toxicity)
Skin corrosion/irritation:				Not irritant
Serious eye damage/irritation:				Not irritant
Respiratory or skin sensitisation:				No (skin contact)

		(Ames-Test) in vivo	Mouse		Negative
Germ cell mutagenicity:					Negative
Carcinogenicity:	NOAEL	247	mg/kg b.w/d	Rat	Negative
Reproductive toxicity (Developmental toxicity):	NOAEL	100	mg/kg	Rat	
Reproductive toxicity (Effects on fertility):	NOAEL	500	mg/kg	Rat	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOEL	25	mg/kg	Rat	(28 d)
Aspiration hazard:					No
Symptoms:					mucous membrane irritation

### SECTION 12: Ecological information

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

Liquimate 2-K Power Kleber 25 mL Art.: 6179 (B)						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method
12.1. Toxicity to fish:						
12.1. Toxicity to daphnia:						n.d.a.
12.1. Toxicity to algae:						n.d.a.
12.2. Persistence and degradability:						n.d.a.
12.3. Bioaccumulative potential:						n.d.a.
12.4. Mobility in soil:						n.d.a.
12.5. Results of PBT and vPvB assessment						n.d.a.
12.6. Other adverse effects:						n.d.a.

Methyl methacrylate						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method
12.1. Toxicity to fish:	LC50	96h	130	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)
12.1. Toxicity to algae:	EC50	72h	>110	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)
12.1. Toxicity to algae:	EC50	96h	37	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)
12.1. Toxicity to algae:		7d	37	mg/l	Scenedesmus quadricauda	
12.2. Persistence and degradability:		28d	>95	%		OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test)
12.3. Bioaccumulative potential:	Log Pow		1,32- 1,38			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)
12.5. Results of PBT and vPvB assessment						A notable biological accumulation potential is not to be expected (LogPow 1-3). No PBT substance. No vPvB substance

2,6-di-tert-butyl-p-cresol						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method
12.4. Mobility in soil:	Log Koc		3,9-4,2			
Other information:	Koc		14750			
Other information:	Log Koc		3,9-4,2			
12.1. Toxicity to fish:	LC50	96h	>0,57	mg/l	Brachydanio rerio	84/449/EEC C.1
12.1. Toxicity to fish:	NOEC/NOEL	42d	0,053	mg/l	Oryzias latipes	OECD 210 (Fish, Early-Life Stage Toxicity Test)
12.3. Bioaccumulative potential:			230- 2500		Cyprinus carpio	OECD 305 (Bioconcentration - Flow-Through Fish Test)
12.1. Toxicity to daphnia:	EC50	48h	0,45	mg/l	Daphnia magna	OECD 202 (Daphnia sp., Acute Immobilisation Test)
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,023	mg/l	Daphnia magna	OECD 202 (Daphnia sp., Acute Immobilisation Test)
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,4	mg/l	Desmodesmus subspicatus	84/449/EEC C.3
12.1. Toxicity to algae:	EC50	72h	>0,4	mg/l	Desmodesmus subspicatus	84/449/EEC C.3
12.2. Persistence and degradability:		28d	4,5	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))
12.3. Bioaccumulative potential:	Log Pow		5,1			High
12.3. Bioaccumulative potential:	BCF		>2000		Cyprinus caprio	OECD 305 (Bioconcentration - Flow-Through Fish Test)
12.4. Mobility in soil:	Koc		14750			No PBT substance
12.5. Results of PBT and vPvB assessment						
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))
Other information:	AOX					Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
Water solubility:				0,00076	g/l	

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

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### For the substance / mixture / residual amounts

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. (2014/655/EU)  
 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.  
 Hardened product:

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.  
 Do not perforate, cut up or weld uncleaned container.  
 Residues may present a risk of explosion.

## SECTION 14: Transport information

### General statements

14.1. UN number: 1993

### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:  
 UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYLMETHACRYLATE)

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Classification code: F1

LO: 1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code: D/E

### Transport by sea (IMDG-code)

14.2. UN proper shipping name:  
 FLAMMABLE LIQUID, N.O.S. (METHYLMETHACRYLATE)

14.3. Transport hazard class(es): 3

14.4. Packing group: F-E, S-E

EmS: n.a.

14.5. Environmental hazards: Not applicable

### Transport by air (IATA)

14.2. UN proper shipping name:  
 Flammable liquid, n.o.s. (METHYLMETHACRYLATE)

14.3. Transport hazard class(es): 3

14.4. Packing group: II

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

Freighted as packaged goods rather than in bulk, therefore not applicable.  
 Minimum amount regulations have not been taken into account.  
 Danger code and packing code on request.  
 Comply with special provisions.

## SECTION 15: Regulatory information

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

Observe restrictions:  
 Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)  
 Comply with trade association/occupational health regulations.

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

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
P5c		5000	50000

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):

70 %

Observe incident regulations.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

2, 3, 5, 8, 10, 11, 12, 14, 15, 16

Revised sections:

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
Flam. Liq. 2, H225	Classification based on test data.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

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

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Irrit. — Skin irritation

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Skin Sens. — Skin sensitization  
 Aquatic Chronic — Hazardous to the aquatic environment - chronic  
 Acute Tox. — Acute toxicity - dermal  
 Acute Tox. — Acute toxicity - oral  
 Eye Irrit. — Eye irritation  
 Aquatic Acute — Hazardous to the aquatic environment - acute

**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  
 approx. approximately  
 Art., Art. no. Article number  
 ASTM ASTM International (American Society for Testing and Materials)  
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BSEF The International Bromine Council  
 bw body weight  
 CAS Chemical Abstracts Service  
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 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  
 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

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REACH Registration, 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 necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by

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