acc. to Regulation (EC) No. 1907/2006 (REACH)

## FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3



#### article number: **1PKK** Version: **1.0 en**

date of compilation: 2022-06-01

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

#### 1.1 Product identifier

Identification of the substance

**FAM test liquid C** , methanol-containing sub-phase, for polymer materials, acc. to DIN 51604-3

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

Relevant identified uses:

Laboratory and analytical use Laboratory chemical

Uses advised against:

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

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

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment sheet:

#### e-mail (competent person):

#### sicherheit@carlroth.de

#### 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	2	Flam. Liq. 2	H225
3.10	Acute toxicity (oral)	3	Acute Tox. 3	H301
3.1D	Acute toxicity (dermal)	3	Acute Tox. 3	H311
3.1I	Acute toxicity (inhal.)	3	Acute Tox. 3	H331
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315

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Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.7	Reproductive toxicity	2	Repr. 2	H361d
3.8	Specific target organ toxicity - single exposure	1	STOT SE 1	H370
3.8D	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
3.9	Specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
3.10	Aspiration hazard	1	Asp. Tox. 1	H304
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16

#### The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

#### Labelling

Signal word Danger

#### **Pictograms**

GHS02, GHS06, GHS08, GHS09



#### Hazard statements

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. No smoking
D2C0	

#### P260 Do not breathe dust/fume/gas/mist/vapours/spray

#### **Precautionary statements - response**

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor
P331	Do NOT induce vomiting

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### Precautionary statements - storage

P403+P235 Store in a well-ventilated place. Keep cool

For professional users only

Hazardous ingredients for labelling:

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

pentene

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

#### 3.1 Substances

not relevant (mixture)

#### 3.2 Mixtures

#### Description of the mixture

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Methanol	CAS No 67-56-1 EC No 200-659-6	55 - < 60	Flam. Liq. 2 / H225 Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 STOT SE 1 / H370		GHS-HC IOELV
Toluene	CAS No 108-88-3 EC No 203-625-9	20 - < 25	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Repr. 2 / H361d STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304		GHS-HC IOELV
Isooctane	CAS No 540-84-1 EC No 208-759-1	10-<15	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		C(a) GHS-HC
2,4,4-Trimethyl- pentene	CAS No 25167-70-8 EC No 246-690-9	5 - < 10	Flam. Liq. 2 / H225 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		D GHS-HC
Ethanol	CAS No 64-17-5 EC No 200-578-6	1-<5	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319		GHS-HC IARC: 1

Notes

C(a): Mixture of isomers D: Certain substances

Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.



Methanol, Toluene, Isooctane, 2,4,4-Trimethyl-

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#### Notes

- GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/ 2008/EC, Annex VI) IARC: 1: IARC group 1: carcinogenic to humans (International Agency for Research on Cancer)
- IOELV: Substance with a community indicative occupational exposure limit value

Name of sub- stance	Identifier	lentifier Specific Conc. Limits M		ATE	Exposure route
Methanol	CAS No 67-56-1 EC No 200-659-6	STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	-	100 <sup>mg</sup> / <sub>kg</sub> 300 <sup>mg</sup> / <sub>kg</sub> 3 <sup>mg</sup> / <sub>l</sub> /4h	oral dermal inhalation: va- pour

For full text of abbreviations: see SECTION 16

### SECTION 4: First aid measures

#### 4.1 **Description of first aid measures**



#### **General notes**

Take off immediately all contaminated clothing. Self-protection of the first aider.

#### **Following inhalation**

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

#### Following skin contact

Rinse skin with water/shower. After contact with skin, wash immediately with plenty of water. In case of skin irritation, consult a physician.

#### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### **Following ingestion**

Rinse mouth immediately and drink plenty of water. Call a physician immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Observe aspiration hazard if vomiting occurs.

#### 4.2 Most important symptoms and effects, both acute and delayed

Following inhalation: Cough, Headache, Vertigo, Dizziness, Drowsiness, Narcosis, Following skin contact: Irritation, Has degreasing effect on the skin, After eve contact: Conjunctival redness of the eyes, Conjunctivitis (pink eye), Following ingestion: Abdominal pain, Malaise, Vomiting, Aspiration hazard, Poisoning effect on central nervous system can cause convulsions, laboured breathing and loss of consciousness, Loss of righting reflex, and ataxia, Serious physical decay of vision, Risk of blindness, Large doses may result in coma and death

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

none

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### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapourair mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

#### **SECTION 6: Accidental release measures**

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



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. Danger of explosion.

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

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Use extractor hood (laboratory). Handle and open container with care. Avoid exposure. Clear contaminated areas thoroughly.

#### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

#### Measures to protect the environment

Avoid release to the environment.

#### Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product. When using do not smoke.

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

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice:

Store locked up. Ground/bond container and receiving equipment.

#### **Ventilation requirements**

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

#### National limit values

#### **Occupational exposure limit values (Workplace Exposure Limits)**

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
EU	toluene	108-88-3	IOELV	50	192	100	384			Н	2006/15/ EC
EU	methanol	67-56-1	IOELV	200	260					Н	2006/15/ EC
GB	toluene	108-88-3	WEL	50	191	100	384				EH40/ 2005
GB	ethanol	64-17-5	WEL	1.00 0	1.920						EH40/ 2005
GB	methanol	67-56-1	WEL	200	266	250	333				EH40/ 2005

#### Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

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Absorbed through the skin Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 STEL TWA

hours time-weighted average (unless otherwise specified)

#### **Relevant DNELs of components of the mixture** Name of sub-**CAS No Used in Exposure time** End-Threshol Protection goal, route of stance point d level exposure Methanol 67-56-1 DNEL 130 mg/m<sup>3</sup> human, inhalatworker (industry) chronic - systemic effects ory 67-56-1 DNEL Methanol human, inhalat-130 mg/m<sup>3</sup> worker (industry) acute - systemic effects ory Methanol 67-56-1 DNEL human, inhalatchronic - local ef-130 mg/m<sup>3</sup> worker (industry) fects ory human, inhalatacute - local ef-DNEL Methanol 67-56-1 130 mg/m<sup>3</sup> worker (industry) fects ory Methanol 67-56-1 DNEL 20 mg/kg human, dermal worker (industry) chronic - systemic effects bw/day Methanol 67-56-1 DNEL 20 mg/kg human, dermal worker (industry) acute - systemic bw/day effects DNEL human, inhalatchronic - systemic Toluene 108-88-3 192 mg/m<sup>3</sup> worker (industry) ory effects Toluene 108-88-3 DNEL human, inhalat-384 mg/m<sup>3</sup> worker (industry) acute - systemic effects orv DNEL human, inhalatchronic - local ef-Toluene 108-88-3 192 mg/m<sup>3</sup> worker (industry) ory fects

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Relevant DNELs	Relevant DNELs of components of the mixture								
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time			
Toluene	108-88-3	DNEL	384 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - local ef- fects			
Toluene	108-88-3	DNEL	384 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			
Isooctane	540-84-1	DNEL	2.035 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects			
Isooctane	540-84-1	DNEL	773 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			
2,4,4-Trimethyl- pentene	25167-70-8	DNEL	14,7 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects			
2,4,4-Trimethyl- pentene	25167-70-8	DNEL	2,1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			
Ethanol	64-17-5	DNEL	1.900 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - systemic effects			
Ethanol	64-17-5	DNEL	343 mg/kg	human, dermal	worker (industry)	chronic - systemic effects			
Ethanol	64-17-5	DNEL	950 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects			

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure tim
Methanol	67-56-1	PNEC	20,8 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (sing instance)
Methanol	67-56-1	PNEC	2,08 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (sing instance)
Methanol	67-56-1	PNEC	100 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (sin <u>c</u> instance)
Methanol	67-56-1	PNEC	77 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (sin <u>c</u> instance)
Methanol	67-56-1	PNEC	7,7 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (sing instance)
Methanol	67-56-1	PNEC	100 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (sin <u>c</u> instance)
Toluene	108-88-3	PNEC	0,68 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (sin <u>c</u> instance)
Toluene	108-88-3	PNEC	0,68 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (sin <u>c</u> instance)
Toluene	108-88-3	PNEC	13,61 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (sin <u>c</u> instance)
Toluene	108-88-3	PNEC	16,39 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (sin <u>c</u> instance)

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Relevant PNECs of components of the mixture							
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time	
Toluene	108-88-3	PNEC	16,39 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)	
Toluene	108-88-3	PNEC	2,89 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)	
2,4,4-Trimethyl- pentene	25167-70-8	PNEC	14,9 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)	
2,4,4-Trimethyl- pentene	25167-70-8	PNEC	1,49 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)	
2,4,4-Trimethyl- pentene	25167-70-8	PNEC	0,233 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)	
2,4,4-Trimethyl- pentene	25167-70-8	PNEC	0,891 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)	
2,4,4-Trimethyl- pentene	25167-70-8	PNEC	89,1 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)	
2,4,4-Trimethyl- pentene	25167-70-8	PNEC	0,397 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)	
Ethanol	64-17-5	PNEC	0,79 <sup>mg</sup> / <sub>cm<sup>3</sup></sub>	unknown	marine water	intermittent re- lease	
Ethanol	64-17-5	PNEC	2,75 <sup>mg</sup> / <sub>cm<sup>3</sup></sub>	unknown	air	intermittent re- lease	
Ethanol	64-17-5	PNEC	3,6 <sup>mg</sup> / <sub>cm<sup>3</sup></sub>	unknown	freshwater sedi- ment	intermittent re- lease	
Ethanol	64-17-5	PNEC	580 <sup>mg</sup> / <sub>cm<sup>3</sup></sub>	unknown	sewage treatment plant (STP)	intermittent re- lease	
Ethanol	64-17-5	PNEC	0,63 <sup>mg</sup> / <sub>cm<sup>3</sup></sub>	unknown	soil	intermittent re- lease	
Ethanol	64-17-5	PNEC	0,96 <sup>mg</sup> / <sub>cm<sup>3</sup></sub>	unknown	freshwater	intermittent re- lease	

#### 8.2 Exposure controls

Individual protection measures (personal protective equipment)

**Eye/face protection** 



Use safety goggle with side protection.

**Skin protection** 



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#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

Butyl caoutchouc (butyl rubber)

#### material thickness

0,7mm

#### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Flame-retardant protective clothing.

#### **Respiratory protection**



Respiratory protection necessary at: Aerosol or mist formation. Type: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

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

#### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	clear
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	>35 °C at 1.013 hPa
Flammability	flammable liquid in accordance with GHS criteria
Flammability Lower and upper explosion limit	flammable liquid in accordance with GHS criteria not determined
, ,	
Lower and upper explosion limit	not determined



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pH (value)	not determined
Kinematic viscosity	not determined
Solubility (inc)	
Solubility(ies)	
Water solubility	not determined
Partition coefficient	
Partition coefficient n-octanol/water (log value):	this information is not available
Vapour pressure	not determined
Density and/or relative density	
Density	0,8 <sup>g</sup> / <sub>cm³</sub> at 20 °C
Relative vapour density	information on this property is not available
Particle characteristics	not relevant (liquid)
Other safety parameters	
Oxidising properties	none
Other information	
Information with regard to physical hazard classes:	There is no additional information.
Other safety characteristics:	There is no additional information.
-	

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

#### 10.1 Reactivity

9.2

The mixture contains reactive substance(s). Risk of ignition. Vapours may form explosive mixtures with air.

#### If heated

Risk of ignition.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### **10.3** Possibility of hazardous reactions

 Danger of explosion: Oxidisers, Perchlorates, Nitrogen oxides (NOx), Chlorates, Halogenated hydrocarbons, Hydrogen peroxide, Nitric acid, Sulphuric acid,
 Exothermic reaction with: Reducing agents, Acids, Chlorine, Chloroform, Acid chlorides, inorganic,
 Dangerous/dangerous reactions with: Fluorine, Alkali metals, Alkaline earth metal, strong oxidiser

#### 10.4 Conditions to avoid

UV-radiation/sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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#### 10.5 Incompatible materials

aluminium, iron, zinc, different plastics, Rubber articles

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

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

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### **Classification acc. to GHS**

#### Acute toxicity

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

Acute toxicity estimate (ATE) of components of the mixture					
Name of substance         CAS No         Exposure route         ATE					
Methanol	67-56-1	oral	100 <sup>mg</sup> / <sub>kg</sub>		
Methanol	67-56-1	dermal	300 <sup>mg</sup> / <sub>kg</sub>		
Methanol	67-56-1	inhalation: vapour	3 <sup>mg</sup> / <sub>l</sub> /4h		

# Acute toxicity of components of the mixture Name of substance CAS No Exposure Endpo

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Methanol	67-56-1	inhalation: va- pour	LC50	131 <sup>mg</sup> / <sub>l</sub> /4h	rat
Methanol	67-56-1	oral	LD50	5.628 <sup>mg</sup> / <sub>kg</sub>	rat
Methanol	67-56-1	oral	LDLo	143 <sup>mg</sup> / <sub>kg</sub>	human
Methanol	67-56-1	dermal	LD50	15.800 <sup>mg</sup> / <sub>kg</sub>	rabbit
Toluene	108-88-3	oral	LD50	5.580 <sup>mg</sup> / <sub>kg</sub>	rat
Toluene	108-88-3	inhalation: va- pour	LC50	28,1 <sup>mg</sup> / <sub>l</sub> /4h	rat
Toluene	108-88-3	dermal	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rabbit
Isooctane	540-84-1	oral	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rat
Isooctane	540-84-1	inhalation: va- pour	LC50	>33,52 <sup>mg</sup> / <sub>l</sub> / 4h	rat
Isooctane	540-84-1	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rabbit
2,4,4-Trimethylpentene	25167-70-8	oral	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat
2,4,4-Trimethylpentene	25167-70-8	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat

acc. to Regulation (EC) No. 1907/2006 (REACH)



## FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3

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cute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Ethanol	64-17-5	inhalation: va- pour	LC50	95,6 <sup>mg</sup> / <sub>l</sub> /4h	rat
Ethanol	64-17-5	oral	LD50	7.060 <sup>mg</sup> / <sub>kg</sub>	rat

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### **Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Suspected of damaging the unborn child.

#### Specific target organ toxicity - single exposure

Causes damage to organs (eye). May cause drowsiness or dizziness.

Hazard category	Target organ	Exposure route
1	eye	if exposed

#### Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

#### Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

abdominal pain, vomiting, aspiration hazard, loss of righting reflex, and ataxia, poisoning effect on central nervous system can cause convulsions, laboured breathing and loss of consciousness, risk of blindness, large doses may result in coma and death

#### • If in eyes

conjunctivitis (pink eye)

#### • If inhaled

vertigo, cough, headache, fatigue, narcosis

#### • If on skin

has degreasing effect on the skin, causes skin irritation

acc. to Regulation (EC) No. 1907/2006 (REACH)

## FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3

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#### Other information

none

**11.2 Endocrine disrupting properties** None of the ingredients are listed.

#### 11.3 Information on other hazards

There is no additional information.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

quatic toxicity (acute) of components of the mixture					
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Methanol	67-56-1	LC50	15.400 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Methanol	67-56-1	ErC50	22.000 <sup>mg</sup> / <sub>l</sub>	algae	96 h
Toluene	108-88-3	LC50	5,5 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Toluene	108-88-3	EC50	84 <sup>mg</sup> / <sub>l</sub>	microorganisms	24 h
Isooctane	540-84-1	LL50	18,4 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Isooctane	540-84-1	LC50	0,11 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Isooctane	540-84-1	EC50	0,4 <sup>mg</sup> /l	aquatic invertebrates	48 h
Isooctane	540-84-1	EL50	2,4 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
2,4,4-Trimethyl- pentene	25167-70-8	LC50	0,58 <sup>mg</sup> / <sub>l</sub>	fish	96 h
2,4,4-Trimethyl- pentene	25167-70-8	EC50	1,2 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
2,4,4-Trimethyl- pentene	25167-70-8	ErC50	1,5 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Ethanol	64-17-5	LC50	8.140 <sup>mg</sup> / <sub>l</sub>	orfe (Leuciscus idus)	96 h
Ethanol	64-17-5	EC50	9.000 – 14.000 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h

#### Aquatic toxicity (chronic) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Toluene	108-88-3	LC50	3,78 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	2 d
Toluene	108-88-3	EC50	3,23 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	7 d
Isooctane	540-84-1	EL50	1,6 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	21 d
Isooctane	540-84-1	EC50	0,23 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	21 d

acc. to Regulation (EC) No. 1907/2006 (REACH)



## FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3

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Aquatic toxicity (chronic) of components of the mixture					
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
2,4,4-Trimethyl- pentene	25167-70-8	EC50	0,33 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	21 d

#### **Biodegradation**

Data are not available.

#### 12.2 Process of degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Methanol	67-56-1	biotic/abiotic	99 %	30 d		
Methanol	67-56-1	oxygen deple- tion	69 %	5 d		ECHA
Isooctane	540-84-1	oxygen deple- tion	61,81 %	70 d		ECHA
Ethanol	64-17-5	biotic/abiotic	94 %	d		

#### 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture					
Name of substance	CAS No	BCF	Log KOW	BOD5/COD	
Methanol	67-56-1		-0,77		
Toluene	108-88-3	90	2,73 (pH value: 7, 20 °C)		
Isooctane	540-84-1	231	4,08		
2,4,4-Trimethylpentene	25167-70-8	466,8	4,9 – 5 (pH value: 7, 25 °C)		
Ethanol	64-17-5		-0,31		

#### 12.4 Mobility in soil

Data are not available.

- **12.5 Results of PBT and vPvB assessment** Data are not available.
- **12.6 Endocrine disrupting properties** None of the ingredients are listed.

#### 12.7 Other adverse effects

Data are not available.

acc. to Regulation (EC) No. 1907/2006 (REACH)



## FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3

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### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

	ADRRID	UN 1992
	IMDG-Code	UN 1992
	ICAO-TI	UN 1992
14.2	UN proper shipping name	
	ADRRID	FLAMMABLE LIQUID, TOXIC, N.O.S.
	IMDG-Code	FLAMMABLE LIQUID, TOXIC, N.O.S.
	ICAO-TI	Flammable liquid, toxic, n.o.s.
	Technical name (hazardous ingredients)	Methanol, Toluene
14.3	Transport hazard class(es)	
	ADRRID	3 (6.1)
	IMDG-Code	3 (6.1)
	ICAO-TI	3 (6.1)
14.4	Packing group	
	ADRRID	II
	IMDG-Code	II
	ICAO-TI	II
14.5	Environmental hazards	hazardous to the aquatic environment

acc. to Regulation (EC) No. 1907/2006 (REACH)



## FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3

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Environmentally hazardous substance (aquatic Isooctane environment):

- **14.6** Special precautions for user Provisions for dangerous goods (ADR) should be complied within the premises.
- **14.7** Maritime transport in bulk according to IMO instruments The cargo is not intended to be carried in bulk.

#### 14.8 Information for each of the UN Model Regulations

## Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
Particulars in the transport document	UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S., (contains: Methanol, Toluene), 3 (6.1), II, (D/E), en- vironmentally hazardous
Classification code	FT1
Danger label(s)	3+6.1, "Fish and tree"
Environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)
Special provisions (SP)	274, 802(ADN)
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D/E
Hazard identification No	336
Emergency Action Code	3WE
Regulations concerning the International Carria information	age of Dangerous Goods by Rail (RID)Additional
Classification code	FT1
Danger label(s)	3+6.1 Fish and tree



3+6.1 Fish and tree

Environmental hazards	Yes Hazardous to water
Special provisions (SP)	274, 802(ADN)
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Hazard identification No	336

acc. to Regulation (EC) No. 1907/2006 (REACH)



## FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3

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International Maritime Dangerous Goods Code (IMDG) - Additional information			
FLAMMABLE LIQUID, TOXIC, N.O.S.			
UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S., (contains: Methanol, Toluene, Isooctane), 3 (6.1), II, 11°C c.c., MARINE POLLUTANT			
<b>Yes</b> (hazardous to the aquatic environment), (Isooctane)			
3+6.1, "Fish and tree"			
274			
E2			
1 L			
F-E, S-D			
В			
-IATA/DGR) - Additional information			
Flammable liquid, toxic, n.o.s.			
UN1992, Flammable liquid, toxic, n.o.s., (contains: Methanol, Toluene), 3 (6.1), II			
<b>Yes</b> (hazardous to the aquatic environment)			
3+6.1			
A3			
E2			
1 L			

## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

2012/18/EU (Seveso III)					
Νο	Dangerous substance/hazard categories		(tonnes) for the ap- and upper-tier re- ments	Notes	
E2	environmental hazards (hazardous to the aquatic en- vironment, cat. 2)	200	500	57)	

Notation

57) Hazardous to the Aquatic Environment in category Chronic 2

acc. to Regulation (EC) No. 1907/2006 (REACH)

# FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3

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### Deco-Paint Directive

	1
VOC content	100 % 800 <sup>g</sup> /l

#### **Industrial Emissions Directive (IED)**

VOC content	100 %
VOC content (Water content was discounted)	800 <sup>g</sup> /l

## Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

## Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Pollutant release and transfer registers (PRTR)					
Name of substance         CAS No         Remarks         Threshold for releases to air (kg/year)					
Toluene	108-88-3	(11)			

Legend

(11) Single pollutants are to be reported if the threshold for BTEX (the sum parameter of benzene, toluene, ethyl benzene, xylenes) is exceeded

#### Water Framework Directive (WFD)

st of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Toluene	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	
Ethanol	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	
Methanol	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	



acc. to Regulation (EC) No. 1907/2006 (REACH)

## FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3

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#### Legend

A)

Indicative list of the main pollutants

#### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

### **Regulation on drug precursors**

Name of substance	CAS No	Classification	CN Code	Threshold level
Toluene	108-88-3	Category 3	2902 30 00	

#### Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

#### Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

#### **Regulation on persistent organic pollutants (POP)**

none of the ingredients are listed

#### National regulations(GB)

## List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list none of the ingredients are listed

#### **Restrictions according to GB REACH, Annex 17**

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	No
FAM test liquid C	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3
2,4,4-Trimethylpentene	flammable / pyrophoric		40
Toluene	Toluene	108-88-3	48
Toluene	flammable / pyrophoric		40
Isooctane	flammable / pyrophoric		40

#### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### UN Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances

Name of substance	CAS No	Listed in	HS code
Toluene	108-88-3	Table II	2902.30



acc. to Regulation (EC) No. 1907/2006 (REACH)

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## FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3

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National i	National inventories				
Country	Inventory	Status			
AU	AIIC	all ingredients are listed			
CA	DSL	all ingredients are listed			
CN	IECSC	all ingredients are listed			
EU	ECSI	all ingredients are listed			
EU	REACH Reg.	all ingredients are listed			
JP	CSCL-ENCS	all ingredients are listed			
JP	ISHA-ENCS	not all ingredients are listed			
KR	KECI	all ingredients are listed			
MX	INSQ	all ingredients are listed			
NZ	NZIoC	all ingredients are listed			
PH	PICCS	all ingredients are listed			
TR	CICR	not all ingredients are listed			
TW	TCSI	all ingredients are listed			
US	TSCA	all ingredients are listed			

#### Legend

Legena	
AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in imple- mentation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard

acc. to Regulation (EC) No. 1907/2006 (REACH)



## FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3

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Abbr.	Descriptions of used abbreviations
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CN Code	Combined Nomenclature
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi fier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
HS	Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code

acc. to Regulation (EC) No. 1907/2006 (REACH)



## FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3

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Abbr.	Descriptions of used abbreviations
IMDG-Code	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
NLP	No-Longer Polymer
РВТ	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

#### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

acc. to Regulation (EC) No. 1907/2006 (REACH)



## FAM test liquid C , methanol-containing subphase, for polymer materials, acc. to DIN 51604-3

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#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs (eye).
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.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.