

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 1 of 17

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

#### 1.1. Product identifier

Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

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

## Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

## Uses advised against

Do not use for private purposes (household).

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

Company name: AnalytiChem GmbH

ACD

Street: Stempelstraße 6
Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

<u>number:</u> Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Flam. Liq. 2; H225

Acute Tox. 4; H302

Acute Tox. 4; H332

Asp. Tox. 1; H304

Skin Irrit. 2; H315

Repr. 2; H361d

STOT SE 2; H371

STOT SE 3; H336

STOT RE 2; H373

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

### Regulation (EC) No 1272/2008



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 2 of 17

## Hazard components for labelling

toluene methanol

2,2,4-trimethylpentane

Signal word: Danger

Pictograms:









## **Hazard statements**

H225 Highly flammable liquid and vapour. H302+H332 Harmful if swallowed or if inhaled.

H315 Causes skin irritation.

H361d Suspected of damaging the unborn child.

H371 May cause damage to organs.
H336 May cause drowsiness or dizziness.

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

H304 May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P201 Obtain special instructions before use.

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

smoking.

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

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water or shower.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### 2.3. Other hazards

No information available.

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

### 3.2. Mixtures



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 3 of 17

## Relevant ingredients

CAS No	Chemical name						
<del></del>	EC No	Index No	REACH No				
	Classification (Regulation (EC	) No 1272/2008)	•				
108-88-3	toluene			50 - < 55 %			
	203-625-9	601-021-00-3	01-2119471310-51				
	Flam. Liq. 2, Repr. 2, Skin Irrii H361d H315 H336 H373 H30		Asp. Tox. 1, Aquatic Chronic 3; H225				
540-84-1	2,2,4-trimethylpentane	35 - < 40 %					
	208-759-1	601-009-00-8	01-2119457965-22				
	Flam. Liq. 2, Skin Irrit. 2, STO H315 H336 H304 H400 H410	cute 1, Aquatic Chronic 1; H225					
64-17-5	ethanol	5 - < 10 %					
	200-578-6	603-002-00-5	01-2119457610-43				
	Flam. Liq. 2, Eye Irrit. 2; H225						
67-56-1	methanol	1 - < 5 %					
	200-659-6	603-001-00-X	01-2119433307-44				
	Flam. Liq. 2, Acute Tox. 3, Ac						

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc.	Limits, M-factors and ATE		
108-88-3	203-625-9	toluene	50 - < 55 %	
	inhalation: LC5	50 = 28,1 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5580 mg/kg		
540-84-1	208-759-1	2,2,4-trimethylpentane	35 - < 40 %	
	inhalation: LC5 mg/kg	50 = > 33,52 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000		
64-17-5	200-578-6	ethanol	5 - < 10 %	
	inhalation: LC5	50 = 124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg		
67-56-1	200-659-6	methanol	1 - < 5 %	
	inhalation: LC50 = 128,2 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: LD50 = 6000 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10			

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **General information**

No data available

### After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 4 of 17

#### After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After inaestion

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

No data available

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

No data available

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

### Unsuitable extinguishing media

no restriction

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

Combustible liquids

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Heating causes rise in pressure with risk of bursting.

Beware of reignition.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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

Avoid contact with skin, eyes and clothes.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

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

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

## General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 5 of 17

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

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

#### For containment

Cover drains

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

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

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

## 7.1. Precautions for safe handling

#### Advice on safe handling

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Vapours can form explosive mixtures with air.

# Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

## Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

# Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.

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



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 6 of 17

## Further information on storage conditions

Keep cool. Protect from sunlight.

## 7.3. Specific end use(s)

Laboratory chemicals

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

## 8.1. Control parameters

## Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
64-17-5	Ethyl alcohol	1000			STEL (15 min)	
67-56-1	Methyl alcohol	200	260		TWA (8 h)	
108-88-3	Toluene	50	192		TWA (8 h)	
		100	384		STEL (15 min)	

## **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-88-3	Toluene	Toluene	0.02 mg/L		Prior to last shift of workweek
67-56-1	Methanol	Methanol	15 mg/L	Urine	End of shift



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 7 of 17

## **DNEL/DMEL values**

CAS No Substance			
DNEL type	Exposure route	Effect	Value
108-88-3 toluene			
Worker DNEL, long-term	inhalation	systemic	192 mg/m³
Worker DNEL, acute	inhalation	systemic	384 mg/m³
Worker DNEL, long-term	inhalation	local	192 mg/m³
Worker DNEL, acute	inhalation	local	384 mg/m³
Worker DNEL, long-term	dermal	systemic	384 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	56,5 mg/m³
Consumer DNEL, acute	inhalation	systemic	226 mg/m³
Consumer DNEL, long-term	inhalation	local	56,5 mg/m³
Consumer DNEL, acute	inhalation	local	226 mg/m³
Consumer DNEL, long-term	dermal	systemic	226 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	8,13 mg/kg bw/day
540-84-1 2,2,4-trimethylpentane			
Worker DNEL, long-term	inhalation	systemic	2035 mg/m³
Worker DNEL, long-term	dermal	systemic	773 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	608 mg/m³
Consumer DNEL, long-term	dermal	systemic	699 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	699 mg/kg bw/day
64-17-5 ethanol			
Worker DNEL, long-term	inhalation	systemic	950 mg/m³
Worker DNEL, long-term	dermal	systemic	343 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	114 mg/m³
Consumer DNEL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	87 mg/kg bw/day
67-56-1 methanol	·		
Consumer DNEL, acute	inhalation	systemic	50 mg/m³
Worker DNEL, long-term	inhalation	systemic	260 mg/m³
Worker DNEL, acute	inhalation	systemic	260 mg/m³
Worker DNEL, long-term	inhalation	local	260 mg/m³
Worker DNEL, acute	inhalation	local	260 mg/m³
Worker DNEL, long-term	dermal	systemic	40 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	40 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	50 mg/m³
Consumer DNEL, long-term	inhalation	local	50 mg/m³
Consumer DNEL, acute	inhalation	local	50 mg/m³
Consumer DNEL, long-term	dermal	systemic	8 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	8 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	8 mg/kg bw/day



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 8 of 17

Consumer DNEL, acute	oral	systemic	8 mg/kg bw/day
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#### **PNEC values**

CAS No	Substance	
Environmental	compartment	Value
108-88-3	toluene	
Freshwater		0,68 mg/l
Freshwater (in	termittent releases)	0,68 mg/l
Marine water		0,68 mg/l
Freshwater se	diment	16,39 mg/kg
Marine sedime	ent	16,39 mg/kg
Micro-organisr	ns in sewage treatment plants (STP)	13,61 mg/l
Soil		2,89 mg/kg
64-17-5	ethanol	
Freshwater		0,96 mg/l
Freshwater (in	termittent releases)	2,75 mg/l
Marine water	0,79 mg/l	
Freshwater se	diment	3,6 mg/kg
Marine sedime	ent	2,9 mg/kg
Secondary poi	soning	380 mg/kg
Micro-organisr	ns in sewage treatment plants (STP)	580 mg/l
Soil		0,63 mg/kg
67-56-1	methanol	
Freshwater		20,8 mg/l
Freshwater (in	termittent releases)	1540 mg/l
Marine water	2,08 mg/l	
Freshwater se	77 mg/kg	
Marine sedime	7,7 mg/kg	
Micro-organism	ns in sewage treatment plants (STP)	100 mg/l
Soil		100 mg/kg

## 8.2. Exposure controls

## Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

## Eye/face protection

goggles

Face protection umbrella

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 9 of 17

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact: No data available

By short-term hand contact

Trade name/designation: KCL 890 Vitoject® Suitable material: FKM (fluoro rubber) 0,7 mm

Wearing time with occasional contact (splashes): > 120 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Take off immediately all contaminated clothing and wash it before reuse.

Wear fire resistant or flame retardant clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

#### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

Danger of explosion

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

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

Physical state: Liquid
Colour: colourless
Odour: characteristic
Odour threshold: No data available

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:

Flammability: not applicable Lower explosion limits: No data available No data available Upper explosion limits: Flash point: -12 °C Auto-ignition temperature: No data available Decomposition temperature: not determined No data available pH-Value: Viscosity / kinematic: No data available Water solubility: Nο

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

No data available

No data available

No data available

No data available



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 10 of 17

Density: 0,77950 g/cm³
Bulk density: No data available
Relative vapour density: No data available

#### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

#### Other safety characteristics

Evaporation rate: No data available No data available Solvent separation test: Solvent content: No data available Solid content: Sublimation point: No data available No data available Softening point: Pour point: No data available No data available Viscosity / dynamic: No data available Flow time: No data available

Further Information
No data available

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

#### 10.1. Reactivity

Highly flammable.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Oxidising agent

## 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

#### 10.6. Hazardous decomposition products

**SECTION 5: Firefighting measures** 

#### **Further information**

No data available

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

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

#### **Acute toxicity**

Harmful if swallowed.

Harmful if inhaled.



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 11 of 17

#### **ATEmix** calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name									
	Exposure route	Dose		Species	Source	Method				
108-88-3	toluene	toluene								
	oral	LD50 mg/kg	5580	Rat	Toxicology 4, 5-15 (1975)	EU Method B.1				
	dermal	LD50 mg/kg	> 5000	Rabbit	American Industrial Hygiene Association	Study investigated mortality in groups o				
	inhalation (4 h) vapour	LC50	28,1 mg/l	Rat	Study report (1980)	OECD Guideline 403				
540-84-1	2,2,4-trimethylpentane									
	oral	LD50 mg/kg	> 5000	Rat	Study report (1982)	OECD Guideline 401				
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1982)	OECD Guideline 402				
	inhalation (4 h) vapour	LC50 mg/l	> 33,52	Rat	Study report (1982)	OECD Guideline 403				
64-17-5	ethanol									
	oral	LD50 mg/kg	10470	Rat	Study report (1976)	OECD Guideline 401				
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	Study report (1980)	OECD Guideline 403				
67-56-1	methanol									
	oral	LD50 mg/kg	6000	Monkey	Amer J Ophthalmol 40: 76-83 (cited in DG	Determination of the acute toxicity of t				
	dermal	ATE mg/kg	300							
	inhalation (4 h) vapour	LC50 mg/l	128,2	Rat	Study report (1980)	Study performed according to internal co				
	inhalation dust/mist	ATE	0,5 mg/l							

## Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

## Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (toluene)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause damage to organs. (methanol)

May cause drowsiness or dizziness. (toluene; 2,2,4-trimethylpentane)

## STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (toluene)

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 12 of 17

# Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

## **Practical experience**

There are no data available on the mixture itself.

## 11.2. Information on other hazards

## Other information

There are no data available on the mixture itself.

#### **Further information**

There are no data available on the mixture itself.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 13 of 17

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
108-88-3	toluene						
	Acute fish toxicity	LC50	5,5 mg/l	96 h	Oncorhynchus kisutch	Transactions A. Fish. Soc. 110, 430-436.	Fry were exposed to toluene in a flow th
	Acute algae toxicity	ErC50 mg/l	> 433	96 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	Method: other
	Acute crustacea toxicity	EC50 mg/l	11,5	48 h	Daphnia magna	REACh Registration Dossier	Method: other
	Fish toxicity	NOEC mg/l	1,39	40 d	Oncorhynchus kisutch	Transactions A. Fish. Soc. 110, 430-436.	Fry were exposed to toluene in a flow th
	Algae toxicity	NOEC mg/l	> 400	7 d	Scenedesmus quadricauda	REACh Registration Dossier	Method: other
	Crustacea toxicity	NOEC mg/l	0,74	7 d	Ceriodaphnia dubia	Ecotoxicol. Environ. Saf. 39, 136-146. (	other: US EPA 600/4-91-003
540-84-1	2,2,4-trimethylpentane						
	Acute fish toxicity	LC50 mg/l	0,11	96 h	Oncorhynchus mykiss	SIDS Initial Assessment Report For SIAM	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	2,943	72 h	Pseudokirchneriella subcapitata	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
	Acute crustacea toxicity	EC50	0,4 mg/l	48 h	Daphnia magna	Publication (1986)	other: As described in: The evaluation o
	Fish toxicity	NOEC mg/l	0,82	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211
64-17-5	ethanol						
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	Bulletin of Environmental Contamination	other: EPA-660/3-75-00 9, 1975
	Acute algae toxicity	ErC50 22000 mg/l	ca.	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 10000	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	other: DIN 38412 Teil 11
	Algae toxicity	NOEC mg/l	5400	5 d	Skeletonema costatum	Environ Toxicol Chem 8(5):451-455. (1989	Study to determine the sensitivity of a
	Crustacea toxicity	NOEC	2 mg/l	10 d	Ceriodaphnia dubia	Arch Environ Contam Toxicol 20(2):211-21	Follows the basic methodology for the th



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 14 of 17

67-56-1	methanol							
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	Bulletin of Environmental Contamination	other: EPA-660/3-75-00 9, 1975	
	Acute algae toxicity	ErC50 22000 mg/l	ca.	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 10000	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	other: DIN 38412 Teil 11	
	Fish toxicity	NOEC mg/l	446,7	28 d	Pimephales promelas	SAR and QSAR in Environmental Research,	Calculation performed with ECOSAR	
	Crustacea toxicity	NOEC	208 mg/l	21 d	Daphnia magna	OECD QSAR Toolbox Report (2013)	Toxicity of the target chemical is predi	

## 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-88-3	toluene	2,73
540-84-1	2,2,4-trimethylpentane	4,08
64-17-5	ethanol	-0,77
67-56-1	methanol	-0,77

### BCF

CAS No	Chemical name	BCF	Species	Source
108-88-3	toluene	90	Leuciscus idus melanotus	Chemosphere 14 (10).
540-84-1	2,2,4-trimethylpentane	231	calculated	Other company data (
64-17-5	ethanol	1	Cyprinus carpio	Comparative Biochemi
67-56-1	methanol	1	Cyprinus carpio	Comparative Biochemi

## 12.4. Mobility in soil

The product has not been tested.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. No data available

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7. Other adverse effects

Do not allow to enter into surface water or drains.

#### **Further information**

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 15 of 17

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not empty into drains.

#### Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

#### **SECTION 14: Transport information**

## Land transport (ADR/RID)

14.1. UN number or ID number: UN 1993

**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (2,2,4-trimethylpentane, toluene)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Classification code:F1

Special Provisions: 274 601 640D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1993

**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (2,2,4-trimethylpentane, toluene)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Classification code:F1

Special Provisions: 274 601 640D

Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1993

**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (2,2,4-trimethylpentane, toluene)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Special Provisions:274Limited quantity:1 LExcepted quantity:E2EmS:F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1993

**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (2,2,4-trimethylpentane, toluene)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Special Provisions:A3Limited quantity Passenger:1 LPassenger LQ:Y341



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 16 of 17

Excepted quantity: E2

IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: 2,2,4-trimethylpentane

14.6. Special precautions for user

Warning: Combustible liquid.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

#### **SECTION 15: Regulatory information**

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

## **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 48, Entry 69, Entry 75

## National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

#### 15.2. Chemical safety assessment

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

# **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 9,12.



according to Regulation (EC) No 1907/2006

# Prüfflüssigkeit N (45 Vol.-% Isooctan, 45 Vol.-% Toluol, 7 Vol.-% Ethanol and 3 Vol.% Methanol)

Revision date: 09.02.2024 Product code: 27965 Page 17 of 17

## Abbreviations and acronyms

Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Asp. Tox: Aspiration hazard Skin Irrit: Skin irritation Eye Irrit: Eye irritation Repr: Reproductive toxicity

STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

#### Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed. H302 Harmful if swallowed.

H302+H332 Harmful if swallowed or if inhaled.

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.

H331 Foxic if inhaled.
H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.H361d Suspected of damaging the unborn child.

H370 Causes damage to organs.
H371 May cause damage to organs.

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.H412 Harmful to aquatic life with long lasting effects.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)