

according to Regulation (EC) No 1907/2006

#### Prüfmedium Kondensat I Prüf-Blow By

Revision date: 30.05.2022

Product code: 24357

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

#### 1.1. Product identifier

Prüfmedium Kondensat I Prüf-Blow By

#### 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:	Fa. Bernd Kraft GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
e-mail:	info@berndkraft.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
e-mail:	produktsicherheit@berndkraft.de	
Internet:	www.berndkraft.de	
Responsible Department:	Abteilung Produktsicherheit	
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMTR	ous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada: anada: +1 703-741-5970 (collect calls

#### **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 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Carc. 2; H351 Repr. 2; H351d STOT SE 3; H336 STOT RE 2; H373 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

#### Regulation (EC) No 1272/2008

#### Hazard components for labelling

toluene naphthalene 2,2,4-trimethylpentane 2,4,4-trimethylpentene



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Signal word:	Danger	
Pictograms:		
Hazard statements	• • • •	
H225	Highly flammable liquid and vapour.	
H315	Causes skin irritation.	
H351	Suspected of causing cancer.	
H361d	Suspected of damaging the unborn child.	
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.	
H411	Toxic to aquatic life with long lasting effects.	
Precautionary statemer	nts	
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.	
Special labelling of cert	ain mixtures	
EUH208	Contains formaldehyde 0,0999 %. May produce an allergic reaction.	
2.3. Other hazards		

No information available.

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

# 3.2. Mixtures

Chemical characterization Mixtures



an anarger**ene** company

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#### Hazardous components

CAS No	Chemical name			Quantity	
	EC No	Index No	REACH No		
	Classification (Regulatio	n (EC) No 1272/2008)			
108-88-3	toluene	45 - < 50 %			
	203-625-9	601-021-00-3	01-2119471310-51		
	Flam. Liq. 2, Repr. 2, Sk H373 H304				
540-84-1	2,2,4-trimethylpentane			20 - < 25 %	
	208-759-1	601-009-00-8	01-2119457965-22		
	Flam. Liq. 2, Skin Irrit. 2 H336 H304 H400 H410				
25167-70-8	2,4,4-trimethylpentene	10 - < 15 %			
	246-690-9	601-087-00-3			
	Flam. Liq. 2, STOT SE 3				
64-17-5	ethanol			1 - < 5 %	
	200-578-6	603-002-00-5	01-2119457610-43		
	Flam. Liq. 2, Eye Irrit. 2;				
91-20-3	naphthalene	1 - < 5 %			
	202-049-5	601-052-00-2			
	Flam. Sol. 1, Carc. 2, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1; H228 H351 H302 H400 H410				

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	45 - < 50 %		
	inhalation: LC mg/kg	50 = 28,1 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5580			
540-84-1	208-759-1	2,2,4-trimethylpentane	20 - < 25 %		
	inhalation: LC50 = > 33,52 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg				
25167-70-8	246-690-9	2,4,4-trimethylpentene	10 - < 15 %		
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 2000 mg/kg			
64-17-5	200-578-6	ethanol	1 - < 5 %		
	inhalation: LC 100	50 = 124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg Eye Irrit. 2; H319: >= 50 -			
91-20-3	202-049-5	naphthalene	1 - < 5 %		
	inhalation: LC mg/kg	50 = > 77,7 mg/l (vapours); dermal: LD50 = > 16000 mg/kg; oral: LD50 = 710			

#### **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



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#### **General information**

No data available

#### After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

# 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.

In case of eye irritation consult an ophthalmologist.

#### After ingestion

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 Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

#### 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



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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.

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 uncontrolled discharge of product into the environment. 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.



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

#### Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

# 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)	
91-20-3	Naphthalene	10	50		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



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### **DNEL/DMEL** values

CAS No S	Substance				
DNEL type		Exposure route	Effect	Value	
108-88-3 to	oluene				
Worker DNEL, loi	ng-term	inhalation	systemic	192 mg/m³	
Worker DNEL, ac	cute	inhalation	systemic	384 mg/m³	
Worker DNEL, loi	ng-term	inhalation	local	192 mg/m³	
Worker DNEL, ac	cute	inhalation	local	384 mg/m³	
Worker DNEL, loi	ng-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/m <sup>3</sup>	
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	2,2,4-trimethylpentane				
Worker DNEL, lo	ng-term	inhalation	systemic	2035 mg/m³	
Worker DNEL, loi	ng-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	
25167-70-8 2	2,4,4-trimethylpentene				
Worker DNEL, lo	ng-term	inhalation	systemic	14,7 mg/m³	
Worker DNEL, lo	ng-term	dermal	systemic	2,1 mg/kg bw/day	
Consumer DNEL	, long-term	inhalation	systemic	4,4 mg/m³	
Consumer DNEL	, long-term	dermal	systemic	1,2 mg/kg bw/day	
Consumer DNEL	, long-term	oral	systemic	2,5 mg/kg bw/day	
64-17-5 e	thanol				
Worker DNEL, lo	ng-term	inhalation	systemic	950 mg/m³	
Worker DNEL, lo	ng-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	
91-20-3 n	aphthalene	-			
Worker DNEL, lo	ng-term	inhalation	systemic	25 mg/m³	
Worker DNEL, lo	ng-term	inhalation	local	25 mg/m³	
Worker DNEL, lo	ng-term	dermal	systemic	3,57 mg/kg bw/day	



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**PNEC** values

CAS No	Substance	
Environmen	tal compartment	Value
108-88-3	toluene	
Freshwater		0,68 mg/l
Freshwater	(intermittent releases)	0,68 mg/l
Marine wate	r	0,68 mg/l
Freshwater	sediment	16,39 mg/kg
Marine sediı	ment	16,39 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	13,61 mg/l
Soil		2,89 mg/kg
25167-70-8	2,4,4-trimethylpentene	
Freshwater		0,015 mg/l
Freshwater	(intermittent releases)	0,015 mg/l
Marine wate	ar	0,015 mg/l
Freshwater	sediment	0,9 mg/kg
Marine sediı	ment	0,9 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	0,233 mg/l
Soil		0,43 mg/kg
64-17-5	ethanol	
Freshwater		0,96 mg/l
Freshwater	(intermittent releases)	2,75 mg/l
Marine wate	r	0,79 mg/l
Freshwater	sediment	3,6 mg/kg
Marine sediı	ment	2,9 mg/kg
Secondary p	poisoning	380 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	580 mg/l
Soil		0,63 mg/kg
91-20-3	naphthalene	
Freshwater		0,0024 mg/l
Freshwater	(intermittent releases)	0,02 mg/l
Marine wate		0,0024 mg/l
Freshwater	sediment	0,0672 mg/kg
Marine sediı	ment	0,0672 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	2,9 mg/l
Soil		0,0533 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





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#### 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.

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 Trade name/designation KCL 890 Vitoject® Suitable material: FKM (fluoro rubber) 0,7 mm Wearing time with permanent contact: > 480 min

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): > 480 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:	clear	
Odour:	characteristic	
Odour threshold:	No data available	
Changes in the physical state		
Melting point/freezing point:		No data available
Boiling point or initial boiling point ar	nd	?
boiling range:		
Sublimation point:		No data available
Softening point:		No data available



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Pour point: :	No data available No data available	
Flash point:	-12 °C	
Flammability		
Solid/liquid:	not applicable	
Gas:	not applicable	
Explosive properties Vapours are heavier than air, spread along fle	oors and form explosive mixtures with air.	
Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Auto-ignition temperature:	No data available	
Self-ignition temperature		
Solid: Gas:	not applicable not applicable	
Decomposition temperature:	No data available	
pH-Value:	No data available	
Viscosity / dynamic:	No data available	
Viscosity / kinematic:	No data available	
Flow time:	No data available	
Water solubility:	No data available	
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available	
Density (at 20 °C):	0,7972 g/cm³	
Bulk density:	No data available	
Relative vapour density:	No data available	
9.2. Other information		
Information with regard to physical hazard clase Sustaining combustion:	sses Sustaining combustion	
Oxidizing properties Not oxidising.		
Other safety characteristics		
Solvent separation test:	No data available	
Solvent content:	No data available	
Solid content:	No data available	
Evaporation rate:	No data available	
Further Information		
No data available		
SECTION 10, Stability and reactivity		

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Highly flammable.



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#### 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.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### 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

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



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CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
108-88-3	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			
25167-70-8	2,4,4-trimethylpentene								
	oral	LD50 mg/kg	> 2000	Rat	Study report (1996)	OECD Guideline 401			
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1996)	OECD Guideline 402			
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			
91-20-3	naphthalene								
	oral	LD50 mg/kg	710	Mouse	FUND. APPL. TOXICOL 4: 406-419 (1984) (1	OECD Guideline 401			
	dermal	LD50 mg/kg	> 16000	Rat	Study report (1980)	OECD Guideline 402			
	inhalation (4 h) vapour	LC50 mg/l	> 77,7	Rat	Study report (1985)	other: EPA TSCA			

#### Irritation and corrosivity

Causes skin irritation.

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

#### Sensitising effects

Contains formaldehyde 0,0999 %. May produce an allergic reaction.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (naphthalene)

Suspected of damaging the unborn child. (toluene)

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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



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#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### 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

There are no data available on the mixture itself.



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CAS No	Chemical name								
	Aquatic toxicity	Dose			Species	Source	Method		
108-88-3	toluene	2000			opolico	bouroo			
	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		
25167-70-8	2,4,4-trimethylpentene								
	Acute algae toxicity	ErC50 mg/l	0,73	72 h	Pseudokirchneriella subcapitata	Study report (1996)	OECD Guideline 201		
	Crustacea toxicity	NOEC mg/l	0,16	21 d	Daphnia magna	Study report (2009)	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		



# according to Regulation (EC) No 1907/2006 Prüfmedium Kondensat I Prüf-Blow By

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	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
91-20-3	naphthalene						
	Acute fish toxicity	LC50	1,6 mg/l	96 h	Oncorhynchus mykiss	Arch. Environm. Contam. Toxicol. 11, 487	OECD Guideline 203
	Acute algae toxicity	ErC50 ca. 0,5 mg/	ca. 0,4 -	72 h	Skeletonema costatum	Mar Environ Res 11, 183-200 (1984)	Aquatic toxicity of water soluble fracti
	Acute crustacea toxicity	EC50 mg/l	2,16	48 h	Daphnia magna	Transactions of the American Fisheries S	OECD Guideline 202
	Fish toxicity	NOEC mg/l	0,37	40 d	Oncorhynchus kisutch	Trans. Am. Fish. Soc. 110:430-436, 1981	Coho salmon fry were exposed for 40 days
	Crustacea toxicity	NOEC mg/l	0,59	125 d	Daphnia pulex	Can. J . Fish. Aquat. Sci. 39: 830 - 834	During chronic studies in closed static

#### 12.2. Persistence and degradability

There are no data available on the mixture itself.

#### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

#### 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
25167-70-8	2,4,4-trimethylpentene	4,9 - 5
64-17-5	ethanol	-0,77
91-20-3	naphthalene	3,4

BCF

501				
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 (
25167-70-8	2,4,4-trimethylpentene	925	no data	QSAR calculation (20
64-17-5	ethanol	1	Cyprinus carpio	Comparative Biochemi
91-20-3	naphthalene	36,5 - 168	Cyprinus carpio	http://www.safe.nite

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

#### 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.



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#### 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

#### **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

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### **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. (toluene, isooctane)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Special Provisions:	274 601 640D
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (toluene, isooctane)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification 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. (toluene, isooctane)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Special Provisions:	274



Pr	üfmedium Kondensat I Prüf-Blow By	
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Limited quantity:	1 L	
Excepted quantity:	E2	
EmS:	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. (toluene, isooctane)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	
Hazard label:	3	
Special Provisions:	A3	
Limited quantity Passenger:	1L	
Passenger LQ:	Y341	
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; 2,4,4-trimethylpent-1-ene	
14.6. Special precautions for user		
Warning: Combustible liquid.		
14.7. Maritime transport in bulk according to	o IMO instruments	
not applicable		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII): Entry 3, Entry 40, Entry 48, Entry 75		
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC). Observe employment restriction under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	
Water hazard class (D):	2 - obviously 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): 2,4,5,6,7,8,9,10,11,12,13,14.

#### Abbreviations and acronyms

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



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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.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
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.
EUH208	Contains formaldehyde 0,0999 %. May produce an allergic reaction.

#### **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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)