

according to Regulation (EC) No 1907/2006

# Tetrahydrofuran / Wasser-Gemisch volumetrisch 2:1 gemischt zur Analyse, stabilisiert

Revision date: 17.02.2023 Product code: 28465 Page 1 of 12

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

# 1.1. Product identifier

Tetrahydrofuran / Wasser-Gemisch volumetrisch 2:1 gemischt zur Analyse, stabilisiert

# 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 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,

number: 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 Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H335 STOT SE 3: H336

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

### Regulation (EC) No 1272/2008

# Hazard components for labelling

tetrahydrofuran

Signal word: Danger

Pictograms:









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#### Hazard statements

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

### **Precautionary statements**

P201 Obtain special instructions before use.

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

smoking.

P233 Keep container tightly closed.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P370+P378 In case of fire: Use sand, extinguishing powder or alcohol-resistant foam to extinguish.

## Special labelling of certain mixtures

EUH019 May form explosive peroxides.

# 2.3. Other hazards

No information available.

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

#### 3.2. Mixtures

## **Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC	C) No 1272/2008)		
109-99-9	tetrahydrofuran			60 - < 65 %
	203-726-8	603-025-00-0	01-2119444314-46	
	Flam. Liq. 2, Carc. 2, Acute T H335 H336 EUH019	ox. 4, Eye Irrit. 2, STOT SE 3,	STOT SE 3; H225 H351 H302 H319	

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

#### Specific Conc. Limits. M-factors and ATE

<u> </u>				
CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
109-99-9	203-726-8	tetrahydrofuran	60 - < 65 %	
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1,65 mg/kg			

## **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.



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#### 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 ingestion

Rinse mouth immediately and drink plenty of water.

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.

### 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.

Avoid contact with skin, eyes and clothes.



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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.

Store in a place accessible by authorized persons only.

# 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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# 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
109-99-9	Tetrahydrofuran	50	150		TWA (8 h)	
		100	300		STEL (15 min)	

# **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
109-99-9	Tetrahydrofuran	THF	2 mg/L	Urine	End of shift

### **DNEL/DMEL values**

CAS No	Substance			
DNEL type	DNEL type		Effect	Value
109-99-9	tetrahydrofuran			
Worker DNEL,	long-term	inhalation	systemic	72,4 mg/m³
Worker DNEL,	acute	inhalation	systemic	96 mg/m³
Worker DNEL,	long-term	inhalation	local	150 mg/m³
Worker DNEL,	Worker DNEL, acute		local	300 mg/m³
Worker DNEL, long-term		dermal	systemic	12,6 mg/kg bw/day
Consumer DNE	EL, long-term	inhalation	systemic	13 mg/m³
Consumer DNE	EL, acute	inhalation	systemic	52 mg/m³
Consumer DNE	Consumer DNEL, long-term		local	75 mg/m³
Consumer DNEL, acute		inhalation	local	150 mg/m³
Consumer DNEL, long-term		dermal	systemic	1,5 mg/kg bw/day
Consumer DNI	Consumer DNEL, long-term		systemic	1,5 mg/kg bw/day



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#### **PNEC** values

CAS No	Substance	
Environmenta	al compartment	Value
109-99-9	tetrahydrofuran	
Freshwater		4,32 mg/l
Freshwater (intermittent releases)		21,6 mg/l
Marine water		0,432 mg/l
Freshwater sediment		23,3 mg/kg
Marine sediment		2,33 mg/kg
Secondary poisoning		67 mg/kg
Micro-organisms in sewage treatment plants (STP)		4,6 mg/l
Soil		2,13 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.

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): > 10 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.



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## 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

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

>35 °C

boiling range:

Flammability: not applicable

not applicable not determined

Lower explosion limits: not determined Upper explosion limits: not determined

Flash point: <21 °C
Auto-ignition temperature: No data available
Decomposition temperature: not determined
pH-Value: not determined

Viscosity / kinematic: No data available

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

Vapour pressure:

No data available

No data available

Density:

0,94614 g/cm³

Bulk density:

No data available

Relative vapour density:

not determined

#### 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:

Solvent separation test:

No data available
Solvent content:

No data available
Solid content:

No data available
Sublimation point:

No data available
Softening point:

No data available
Pour point:

No data available
No data available
No data available

Viscosity / dynamic: No data available Flow time: No data available



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#### **Further Information**

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Vapours may form explosive mixtures with air.

### 10.2. Chemical stability

May form explosive peroxides.

# 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. Risk of explosion by shock, friction, fire or other sources of ignition. Remove all sources of ignition. Keep away from heat. Ignition hazard.

### 10.5. Incompatible materials

Protect against: Contact with air/oxygen.

### 10.6. Hazardous decomposition products

May form explosive peroxides.

#### **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.

### **ATEmix calculated**

ATE (oral) 781,3 mg/kg

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
109-99-9	tetrahydrofuran					
	oral	LD50 mg/kg	1,65	Rat	' ' '	Conducted according to a published proce
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2009)	OECD Guideline 402

# Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/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 causing cancer. (tetrahydrofuran)

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



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### STOT-single exposure

May cause respiratory irritation. (tetrahydrofuran) May cause drowsiness or dizziness. (tetrahydrofuran)

### STOT-repeated exposure

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

#### **Aspiration hazard**

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

### Information on likely routes of exposure

There are no data available on the mixture itself.

#### 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.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
109-99-9	tetrahydrofuran						
	Acute fish toxicity	LC50 mg/l	2160	96 h	Pimephales promelas	Center for Lake Superior Environmental S	OECD Guideline 203
	Fish toxicity	NOEC	216 mg/l	33 d	Pimephales promelas	Environmental toxicology and chemistry 4	Effect on hatching rate, survival and gr

#### 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
109-99-9	tetrahydrofuran	0,45

# 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.

There are no data available on the mixture itself.

# 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.



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#### 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

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)

111	UN number or	ID number	UN 2056
14.1.	UN number or	ID number:	UIN ZUOD

14.2. UN proper shipping name: TETRAHYDROFURAN

14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 3 Classification code: F1 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 2056

14.2. UN proper shipping name: TETRAHYDROFURAN

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Classification code:F1Limited quantity:1 LExcepted quantity:E2

# Marine transport (IMDG)

14.1. UN number or ID number: UN 2056

14.2. UN proper shipping name: TETRAHYDROFURAN

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

# Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2056

14.2. UN proper shipping name: TETRAHYDROFURAN

14.3. Transport hazard class(es): 3



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14.4. Packing group: П Hazard label: 3 Limited quantity Passenger: 1 I Passenger LQ: Y341 Excepted quantity: F2

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:** No

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 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): 1 - slightly 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): 1,2,11.

#### 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

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%



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# Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure	
Flam. Liq. 2; H225	On basis of test data	
Acute Tox. 4; H302	Calculation method	
Eye Irrit. 2; H319	Calculation method	
Carc. 2; H351	Calculation method	
STOT SE 3; H335	Calculation method	
STOT SE 3; H336	Calculation method	

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

H225	Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
EUH019 May form explosive peroxides.

#### **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.)