

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Tetramethylammonium hydroxide solution R React. Ph. Eur., Chapter 4.1.1

Revision: 26.11.2024 Product code: 27647 Page 1 of 12

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

### 1.1. Product identifier

Tetramethylammonium hydroxide solution R React, Ph. Eur., Chapter 4.1.1

UFI: 4NJF-A2E8-8002-074V

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

### Use of the substance/mixture

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

### 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

Acute Tox. 1; H310 Acute Tox. 2; H300 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 1; H370 STOT RE 1; H372 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

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

## Hazard components for labelling

Tetramethylammonium 5-hydrate

Signal word: Danger



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## Pictograms:







#### **Hazard statements**

H300+H310 Fatal if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.

H370 Causes damage to organs (central nervous system).

H372 Causes damage to organs (thymus, liver) through prolonged or repeated exposure in contact

with skin.

H412 Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

P201 Obtain special instructions before use.

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

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

### 2.3. Other hazards

No data available

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

### 3.2. Mixtures

## **Chemical characterization**

Mixtures in aqueous solution

# Relevant ingredients

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
10424-65-4	Tetramethylammonium 5-hydrate		15 - < 20 %	
			01-2119970562-34	
	Acute Tox. 1, Acute Tox. 2, Skin Corr. 1A, STOT SE 1, STOT RE 1, Aquatic Chronic 2; H310 H300 H314 H370 H372 H411			

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. L	Specific Conc. Limits, M-factors and ATE	
10424-65-4		Tetramethylammonium 5-hydrate	15 - < 20 %
	dermal: LD50 = 1000 - 2000 mg/kg; oral: LD50 = 300 - 2000 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).



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# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

Self-protection of the first aider

#### After inhalation

Provide fresh air

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

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.

Call a physician immediately.

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

Cough, Dyspnoea

Headache, Gastrointestinal complaints

Vomiting

## 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

Co-ordinate fire-fighting measures to the fire surroundings.

### Unsuitable extinguishing media

no restriction

# 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated:

Nitrogen oxides (NOx)

Carbon monoxide

Carbon dioxide

### 5.3. Advice for firefighters

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

Avoid contact with skin, eyes and clothes.

### **Additional information**

Suppress gases/vapours/mists with water spray jet.

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

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

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



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#### General advice

Do not breathe vapour/aerosol.

### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

**Emergency procedures** 

Consult an expert

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.

#### 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.

Take up carefully when dry. Take up dust-free and set down dust-free.

### 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

Do not breathe vapour/aerosol.

Read label before use.

Use extractor hood (laboratory).

# Advice on protection against fire and explosion

Usual measures for fire prevention.

### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

### Further information on handling

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

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

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

### Requirements for storage rooms and vessels

Store in a place accessible by authorized persons only.

Keep container tightly closed. Store in a dry place.



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## Hints on joint storage

national regulations

## Further information on storage conditions

Protect against: Light

Keep cool. Protect from sunlight.

## 7.3. Specific end use(s)

Laboratory chemicals

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

## 8.1. Control parameters

### **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
10424-65-4	Tetramethylammonium 5-hydrate			
Worker DNEL	, long-term	inhalation	systemic	0,49 mg/m³
Worker DNEL, long-term		dermal	systemic	0,14 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,29 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,083 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,042 mg/kg bw/day

### PNEC values

CAS No	Substance	
Environmenta	al compartment	Value
10424-65-4	Tetramethylammonium 5-hydrate	
Freshwater		0,0005 mg/l
Freshwater (intermittent releases)		0,03 mg/l
Marine water		0,00005 mg/l
Freshwater sediment		0,03 mg/kg
Marine sediment		0,003 mg/kg
Micro-organisms in sewage treatment plants (STP)		5 mg/l
Soil		0,0057 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

Suitable eye protection:

goggles

Face protection umbrella

## **Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four



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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 741 Dermatril® L
Recommended material: NBR (Nitrile rubber) 0,11 mm
Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L
Recommended material: NBR (Nitrile rubber) 0,11 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

Wear suitable protective clothing.

Wear full chemical protective clothing.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## Thermal hazards

No data available

# **Environmental exposure controls**

Do not allow to enter into surface water or drains.

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

# 9.1. Information on basic physical and chemical properties

Physical state:

Colour:

Odour:

Odour threshold:

Liquid

colourless

characteristic

No data available

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:

Flammability:
Lower explosion limits:
Upper explosion limits:
No data available
Flash point:
No data available
No data available
No data available



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Auto-ignition temperature:

Decomposition temperature:

No data available

No data available

PH-Value:

No data available

Viscosity / kinematic:

No data available

Water solubility:

No data available

Solubility in other solvents

No data available

No data available Dissolution rate: No data available Partition coefficient n-octanol/water: Dispersion stability: No data available No data available Vapour pressure: No data available Vapour pressure: No data available Density: Bulk density: No data available No data available Relative vapour density: No data available Particle characteristics:

### 9.2. Other information

### Information with regard to physical hazard classes

Sustained combustibility:

No data available

Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties

No data available

### 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:

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

Further Information
No data available

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

## 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

Protect against: Light

### 10.3. Possibility of hazardous reactions

Violent reaction with: Oxidising agent, strong

Acids



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### 10.4. Conditions to avoid

Light

#### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

In case of fire may be liberated:

Nitrogen oxides (NOx)

Carbon monoxide

Carbon dioxide

### **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**

Fatal in contact with skin.

Fatal if swallowed.

#### **ATEmix** calculated

ATE (oral) 25,20 mg/kg; ATE (dermal) 25,20 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
10424-65-4	Tetramethylammonium 5-hydrate				
	oral	LD50 300 - 2000 mg/kg	Rat	Study report (2005)	OECD Guideline 423
	dermal	LD50 1000 - 2000 mg/kg	Rat	Study report (2005)	OECD Guideline 402

### Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

# Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

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

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

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

# STOT-single exposure

Causes damage to organs. (Tetramethylammonium 5-hydrate)

## STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (Tetramethylammonium 5-hydrate)

## **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.



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### 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

### **Endocrine disrupting properties**

There are no data available on the mixture itself.

#### Other information

Cough, Dyspnoea Headache, Gastrointestinal complaints Vomiting

### **Further information**

There are no data available on the mixture itself.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
10424-65-4	Tetramethylammonium 5-	hydrate					
	Acute fish toxicity	LC50	462 mg/l		Pimephales promelas	Center for Lake Superior Environmental S	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	96,3	72 h	Pseudokirchneriella subcapitata	Study report (2005)	OECD Guideline 201
	Acute crustacea toxicity	EC50	3 mg/l	48 h	Daphnia magna	Study report (2001)	OECD Guideline 202
	Acute bacteria toxicity	EC50 mg/l ( )	> 1000		activated sludge of a predominantly domestic sewag	Study report (2013)	OECD Guideline 209

# 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
10424-65-4	Tetramethylammonium 5-hydrate	< 0,036

### 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.

### 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

Discharge into the environment must be avoided.

#### **Further information**

Do not allow to enter into surface water or drains.

# **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

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

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14.1. U	N number	or ID number:	UN 1835
14.1. U	N number	or ID number:	UN 183

14.2. UN proper shipping name: TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es): Ш 14.4. Packing group: Hazard label: 8 C7 Classification code: Limited quantity: 1 L F2 Excepted quantity: 2 Transport category: 80 Hazard No: Ε Tunnel restriction code:

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1835

**14.2. UN proper shipping name:** TETRAMETHYLAMMONIUM HYDROXIDE, SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Classification code:C7Limited quantity:1 LExcepted quantity:E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1835

14.2. UN proper shipping name: TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Special Provisions:-Limited quantity:1 LExcepted quantity:E2EmS:F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1835



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14.2. UN proper shipping name: TETRAMETHYLAMMONIUM HYDROXIDE, SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Special Provisions:A

Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3 A803

0.5 L

Y840

Excepted quantity:

E2

IATA-packing instructions - Passenger:851IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:855IATA-max. quantity - Cargo:30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: Tetramethylammonium-5-hydrat

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

### 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

Information according to Directive

2012/18/EU (SEVESO III):

H1 ACUTE TOXIC

**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): 2 - obviously hazardous to water

### **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 1,3,6,8,9,12.



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### Abbreviations and acronyms

Acute Tox. 1: Acute toxicity, hazard category 1 Skin Corr. 1A: Skin corrosion, sub-category 1A Eye Dam. 1: Serious eye damage, hazard category 1

STOT SE 1: Specific target organ toxicity - single exposure, hazard category 1 STOT RE 1: Specific target organ toxicity - repeated exposure, hazard category 1

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2

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%

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

Classification	Classification procedure
Acute Tox. 1; H310	Calculation method
Acute Tox. 2; H300	Calculation method
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
STOT SE 1; H370	Calculation method
STOT RE 1; H372	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

H300	Fatal if swallowed.
H300+H310	Fatal if swallowed or in contact with skin.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H370	Causes damage to organs (central nervous system).
H370	Causes damage to organs.
H372	Causes damage to organs (thymus, liver) through prolonged or repeated exposure in contact with skin.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	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 receiver of our product is singularly responsible for adhering to existing laws and regulations.

Provide appropriate information, instructions and training to users

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