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Mixed indicator for determination of NH4-N (CFA/FIA) according to EN ISO 11732:2005, DEV E23				
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SECTION 1: Identification of the se	ubstance/mixture and of the c	ompany/undertaking		
<u>1.1. Product identifier</u> Mixed indicator for determination of NH4-N (CFA/FIA) according to EN ISO 11732:2005, DEV E23				
1.2. Relevant identified uses of the su	bstance or mixture and uses adv	<u>vised against</u>		
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 safe	ty data sheet			
Company name:	AnalytiChem GmbH ACD			
Street: Place:	Stempelstraße 6 D-47167 Duisburg			
Telephone:	0203/5194-0	Telefax: 0203/5194-290		
E-mail: Contact person: E-mail: Internet: Responsible Department:	info@analytichem.de Abteilung Produktsicherheit produktsicherheit@analytichem. www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117 de		
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHE	gerous Goods] Incidents Spill, Leak, Fire, MTREC Day or Night Within USA and Canada Id Canada: +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

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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according to Regulation (EC) No 1907/2006

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Relevant ingredients

CAS No	Chemical name	Chemical name			
	EC No	EC No Index No REACH No			
	Classification (Regulation (EC) No	Classification (Regulation (EC) No 1272/2008)			
7447-40-7	potassium chloride	potassium chloride			
	231-211-8				

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	EC No Chemical name				
	Specific Conc. Limits, M-factors and ATE					
7447-40-7	231-211-8	231-211-8 potassium chloride				
	oral: LD50 = ca. 2600 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.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a doctor if you feel unwell.

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

Irritant Vomiting Gastrointestinal complaints Cardiac arrhythmias Circulatory collapse

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



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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products In case of fire may be liberated: Hydrogen chloride (HCI)

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Avoid contact with skin, eyes and clothes.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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 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

Handle and open container with care. Keep container tightly closed. Do not breathe dust. Avoid dust formation. Avoid contact with skin, eyes and clothes.



Mixed indicator for determination of NH4-N (CFA/FIA) according to EN ISO 11732:2005, DEV E23 Revision date: 09.04.2024 Product code: 18586 Page 4 of 10 Advice on protection against fire and explosion Usual measures for fire prevention. Advice on general occupational hygiene Wash contaminated clothing prior to re-use. Do not breathe dust. Avoid dust formation. Avoid contact with skin, eyes and clothes. Further information on handling Wash contaminated clothing before reuse. Wash hands before breaks and after work. 7.2. Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels Keep container tightly closed. Hints on joint storage No data available Further information on storage conditions Store in a dry place. Protect against: Light, Heat 7.3. Specific end use(s) Laboratory chemicals **SECTION 8: Exposure controls/personal protection** 8.1. Control parameters **DNEL/DMEL** values Substance CAS No

DNEL type	Exposure route	Effect	Value
7447-40-7 potassium chloride			
Worker DNEL, long-term	inhalation	systemic	1064 mg/m ³
Worker DNEL, acute	inhalation	systemic	5320 mg/m³
Worker DNEL, long-term	dermal	systemic	303 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	910 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	273 mg/m³
Consumer DNEL, acute	inhalation	systemic	1365 mg/m³
Consumer DNEL, long-term	dermal	systemic	182 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	910 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	91 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	455 mg/kg bw/day

PNEC values

CAS No	Substance		
Environmental	Environmental compartment Value		
7447-40-7 potassium chloride			
Freshwater 0,1 mg/l			
Freshwater (intermittent releases) 1 mg/l			
Marine water 0,1 mg/l		0,1 mg/l	
Micro-organisms in sewage treatment plants (STP) 10 mg/l			



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8.2. Exposure controls

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Hand protection

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

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

By short-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11mm Wearing time with occasional contact (splashes): >480min

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. Wash hands before breaks and after work.

Respiratory protection

Respiratory protection necessary at: dust 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.

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: Melting point/freezing point:	solid No data available odourless No data available	No data available
Boiling point or initial boiling point and		No data available
boiling range: Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available



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Decomposition temperature:	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		
Dissolution rate:	No data available	
Partition coefficient n-octanol/water:	No data available	
Dispersion stability:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available No data available	
Density (at 20 °C): Relative density:	No data available	
Bulk density:	No data available	
Relative vapour density:	No data available	
Particle characteristics:	No data available	
9.2. Other information		
Information with regard to physical hazard classes		
Explosive properties No data available		
Sustaining combustion:	No data available	
Self-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Oxidizing properties		
No data available		
Other safety characteristics		
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	No data available	
Solid content:	100%	
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

Protect against: Light, Heat

10.3. Possibility of hazardous reactions

Oxidising agent, strong

10.4. Conditions to avoid

Light





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Heat

Light, Heat

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In case of fire may be liberated: 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

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

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
7447-40-7	potassium chloride				
	oral	LD50 ca. 2600 mg/kg		J Pharmacol Exp Therap 35, 1-15, 1929 (1	

Irritation and corrosivity

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

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

STOT-single exposure

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

STOT-repeated exposure

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



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Aspiration hazard Based on available data, the classification criteria are not met.							
	ion on likely routes of ex e are no data available or		re itself.				
=	effects in experiment or e are no data available or						
	al information on tests e are no data available or	n the mixtur	re itself.				
	experience e are no data available or	n the mixtur	re itself.				
11.2. Inform	ation on other hazards						
	ne disrupting properties e are no data available or	n the mixtur	re itself.				
	formation e are no data available or	n the mixtur	re itself.				
Further information Irritant Vomiting Gastrointestinal complaints Cardiac arrhythmias Circulatory collapse							
SECTION 12: Ecological information							
<u>12.1. Toxicit</u> Base	⊻ d on available data, the c	lassificatio	n criteria are	not me	t.		
CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
7447-40-7	potassium chloride						
	Acute fish toxicity	LC50	880 mg/l	96 h	Pimephales promelas	Environmental Toxicology and Chemistry,	OECD Guideline 203
	Acute algae toxicity	ErC50	> 100	72 h	Desmodesmus	Study report	OECD Guideline

12.2. Persistence and degradability

There are no data available on the mixture itself.

mg/l

EC50

mg/l ()

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

Acute bacteria toxicity

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

> 1000

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

Discharge into the environment must be avoided.

subspicatus

3 hactivated sludge,

domestic

(2010)

(2010)

Study report

201

209

OECD Guideline



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Further information

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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. 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.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.		
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.		
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.		
14.4. Packing group:	No dangerous good in sense of this transport regulation.		
Inland waterways transport (ADN)			
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.		
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.		
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.		
14.4. Packing group:	No dangerous good in sense of this transport regulation.		
Marine transport (IMDG)			
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.		
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.		
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.		
14.4. Packing group:	No dangerous good in sense of this transport regulation.		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.		
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.		
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.		
14.4. Packing group:	No dangerous good in sense of this transport regulation.		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
14.6. Special precautions for user			
No dangerous good in sense of this tra	nsport regulation.		
14.7. Maritime transport in bulk according to	o IMO instruments		
No dangerous good in sense of this tra	nsport regulation.		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regul	lations/legislation specific for the substance or mixture		
EU regulatory information			
Restrictions on use (REACH, annex XVII):			
Entry 75			

2012/18/EU (SEVESO III):

Information according to Directive

Not subject to 2012/18/EU (SEVESO III)



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 National regulatory information
 Vater hazard class (D):
 2 - obviously hazardous to water

 Additional information
 No data available
 Product code: 18586

SECTION 16: Other information

Changes

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

Further Information

Provide appropriate information, instructions and training to users

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 information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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