

# 3,2 M Ammoniumsulfatlösung pH 7,0 Roche Identnummer 05413508001

Revision date: 27.05.2022

Product code: 18386

Page 1 of 10

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

# 1.1. Product identifier

3,2 M Ammoniumsulfatlösung pH 7,0 Roche Identnummer 05413508001

### 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

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

# Chemical characterization

Mixtures in aqueous solution



# 3,2 M Ammoniumsulfatlösung pH 7,0 Roche Identnummer 05413508001

Revision date: 27.05.2022

Product code: 18386

Page 2 of 10

### Hazardous components

CAS No	Chemical name	Chemical name		Quantity	
	EC No	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)				
7783-20-2	ammonium sulphate	ammonium sulphate		35 - < 40 %	
	231-984-1		01-2119455044-46		
		•	•		

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

Specific Conc. Limits, M-factors and ATE					
CAS No	EC No Chemical name				
	Specific Conc. Limits, M-factors and ATE				
7783-20-2	231-984-1 ammonium sulphate		35 - < 40 %		
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 4250 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.

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

### 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

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

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

# Unsuitable extinguishing media

no restriction

# 5.2. Special hazards arising from the substance or mixture

### Non-flammable.

Hazardous combustion products



# 3,2 M Ammoniumsulfatlösung pH 7,0 Roche Identnummer 05413508001

Revision date: 27.05.2022

Product code: 18386

Page 3 of 10

In case of fire may be liberated: Nitrogen oxides (NOx) Sulphur oxides

# 5.3. Advice for firefighters

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

### Additional information

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

#### 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.

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

Handle and open container with care.

Keep container tightly closed.

Avoid contact with skin, eyes and clothes.

# Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.



# 3,2 M Ammoniumsulfatlösung pH 7,0 Roche Identnummer 05413508001

Revision date: 27.05.2022

Product code: 18386

Page 4 of 10

### 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 special measures are necessary.

### Further information on storage conditions

Store in a dry place.

### 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
7783-20-2	ammonium sulphate			
Worker DNEL,	long-term	inhalation	systemic	11,167 mg/m <sup>3</sup>
Worker DNEL,	long-term	dermal	systemic	42,667 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	1,667 mg/m³
Consumer DN	EL, long-term	dermal	systemic	12,8 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	6,4 mg/kg bw/day

### **PNEC** values

CAS No	Substance			
Environmenta	I compartment	Value		
7783-20-2	7783-20-2 ammonium sulphate			
Freshwater		0,312 mg/l		
Freshwater (in	ntermittent releases)	0,53 mg/l		
Marine water		0,031 mg/l		
Freshwater sediment		0,063 mg/kg		
Micro-organisms in sewage treatment plants (STP)		16,18 mg/l		
Soil 62,6 1		62,6 mg/kg		

# 8.2. Exposure controls

# Appropriate engineering controls

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

# Individual protection measures, such as personal protective equipment

# Eye/face protection

equipment.

Wear eye/face protection.



# 3,2 M Ammoniumsulfatlösung pH 7,0 Roche Identnummer 05413508001

Revision date: 27.05.2022

Product code: 18386

Page 5 of 10

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

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Suitable 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.

### **Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation

### **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:	Liquid	
Colour:	clear	
Odour:	odourless	
Odour threshold:	No data available	
Changes in the physical state		
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available
No data available:		
Flash point:		Х
Flammability		
Solid/liquid:		No data available



3,2 M Ammoniumsulfatlösu	ung pH 7,0 Roche Identnummer 05413508001	I
Revision date: 27.05.2022	Product code: 18386	Page 6 of 10
Gas:	No data available	
Explosive properties No data available		
Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Auto-ignition temperature:	No data available	
Self-ignition temperature		
Solid:	No data available	
Gas:	No data available	
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:	easily soluble	
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:	1,20118 g/cm³	
Bulk density:	No data available	
Relative vapour density:	No data available	
9.2. Other information		
Information with regard to physical hazard classes	S	
Sustaining combustion:	No data available	
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		

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

No data available



# 3,2 M Ammoniumsulfatlösung pH 7,0 Roche Identnummer 05413508001

Revision date: 27.05.2022

Product code: 18386

Page 7 of 10

# 10.4. Conditions to avoid

No data available

# 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.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
7783-20-2	ammonium sulphate					
	oral	LD50 mg/kg	4250	Rat	Study report (1969)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000		Arch Toxicol 64: 262-268. (1990)	OECD Guideline 434

### 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.

### Aspiration hazard

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

#### 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.



# 3,2 M Ammoniumsulfatlösung pH 7,0 Roche Identnummer 05413508001

Revision date: 27.05.2022

Product code: 18386

Page 8 of 10

### **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
7783-20-2	ammonium sulphate						
	Acute fish toxicity	LC50	53 mg/l	96 h	Oncorhynchus mykiss	EPA-822-R-99-01 4 (1999)	lowest SMAV for salmonoid species among
	Acute crustacea toxicity	EC50 mg/l	121,7	48 h	Ceriodaphnia acanthina	unpublished data (2009)	lowest SMAV as given in U.S. EPA
	Fish toxicity	NOEC mg/l	0,38	72 d	Oncorhynchus mykiss	Rapp. Pv. Reun. Cons. int. Explor. Mer	Early life stage test starting 1 day aft
	Acute bacteria toxicity	(EC50 mg/l)	1618	0,5 h	activated sludge, domestic	Study report (1988)	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
7783-20-2	ammonium sulphate	0,48

### 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.

### 12.7. Other adverse effects

Do not empty into 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. 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.



# 3,2 M Ammoniumsulfatlösung pH 7,0 Roche Identnummer 05413508001

Revision date: 27.05.2022

Product code: 18386

Page 9 of 10

# **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 information available.	
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
National regulatory information	
Water hazard class (D):	1 - slightly hazardous to water
Additional information	
No data available	
15.2. Chemical safety assessment	
Chemical safety assessments for subs	stances in this mixture were not carried out.
SECTION 16: Other information	
Changes	
This data sheet contains changes from	n the previous version in section(s): 1.
Abbreviations and acronyms	· · · · · · · · · · · · · · · · · · ·
-	t des marchandises dengerouses per Poute
	t des marchandises dangereuses par Route
IMDG: International Maritime Code for	International Carriage of Dangerous Goods by Road)
	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



# 3,2 M Ammoniumsulfatlösung pH 7,0 Roche Identnummer 05413508001

Revision date: 27.05.2022

Product code: 18386

Page 10 of 10

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

### **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.)