

according to Regulation (EC) No 1907/2006

# Buffer solution pH 10 (± 0,02)

Revision date: 18.12.2017 Product code: P10-A Page 1 of 7

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

#### 1.1. Product identifier

Buffer solution pH 10 (± 0,02)

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

#### Use of the substance/mixture

Use as laboratory reagent

## 1.3. Details of the supplier of the safety data sheet

Company name: Waldeck GmbH & Co KG
Street: Havixbecker Str. 62
Place: D-48161 Münster

Post-office box: 410180

D-48065 Münster

Telephone: +49(0)180/2247662 Telefax: +49(0)180/1247662

Responsible Department: Labor

Mo. - Do.: 08.00 - 17.00 Uhr, Fr.: 08.00 - 15.00 Uhr

**1.4. Emergency telephone** +49(0)180/2247662

number:

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eve damage/eve irritation: Eve Dam. 1

Hazard Statements: Causes skin irritation. Causes serious eye damage.

#### 2.2. Label elements

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

## Hazard components for labelling

Ammonia

Signal word: Danger

Pictograms:



## **Hazard statements**

H315 Causes skin irritation.
H318 Causes serious eye damage.

## **Precautionary statements**

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

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

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.



according to Regulation (EC) No 1907/2006

# Buffer solution pH 10 (± 0,02)

Revision date: 18.12.2017 Product code: P10-A Page 2 of 7

#### 2.3. Other hazards

No information available.

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

#### 3.2. Mixtures

#### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regulat	ion (EC) No. 1272/2008 [CLP]	•		
12125-02-9	ammonium chloride				
	235-186-4	017-014-00-8			
	Acute Tox. 4, Eye Irrit. 2; H302 H319				
1336-21-6	Ammonia			5 - < 10 %	
	215-647-6	007-001-01-2			
	Skin Corr. 1B, Aquatic Acute 1; H314 H400				

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

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

## **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

Provide fresh air.

#### After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

#### 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.

## After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Aspiration hazard

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

If swallowed there is a risk of blindness.

Cough, Dyspnoea, Unconsciousness, Vomiting, Circulatory collapse

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

# Suitable extinguishing media

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

# 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Hazardous combustion products, Nitrogen oxides (NOx)



according to Regulation (EC) No 1907/2006

# Buffer solution pH 10 (± 0,02)

Revision date: 18.12.2017 Product code: P10-A Page 3 of 7

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### 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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

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

## Requirements for storage rooms and vessels

Keep container tightly closed.

#### Advice on storage compatibility

No special measures are necessary.

#### Further information on storage conditions

storage temperature: at room temperature

## 7.3. Specific end use(s)

Use as laboratory reagent

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

#### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7664-41-7	Ammonia, anhydrous	25	18		TWA (8 h)	WEL
		35	25	Ì	STEL (15 min)	WEL
12125-02-9	Ammonium chloride, fume	-	10	Ì	TWA (8 h)	WEL
		-	20	]	STEL (15 min)	WEL



according to Regulation (EC) No 1907/2006

# Buffer solution pH 10 (± 0,02)

Revision date: 18.12.2017 Product code: P10-A Page 4 of 7

#### 8.2. Exposure controls





#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

## Protective and hygiene measures

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.

#### Eye/face protection

Suitable eye protection: goggles.

#### 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.

#### Skin protection

Wear suitable protective clothing.

## Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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

## 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: Ammonia

pH-Value (at 20 °C):

#### Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Flash point:

not determined

not determined

#### **Flammability**

Solid: not applicable
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

#### **Auto-ignition temperature**

Solid: not applicable
Gas: not applicable
Decomposition temperature: not determined

#### **Oxidizing properties**

Not oxidizing.

Vapour pressure: not determined



according to Regulation (EC) No 1907/2006

Buffer solution pH 10 (± 0,02)

Revision date: 18.12.2017 Product code: P10-A Page 5 of 7

Density: not determined Water solubility: easily soluble

Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

## **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

Violent reaction with:: Strong acid

## 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

#### **Acute toxicity**

CAS No	Chemical name						
	Exposure route	Dose	Species	Source	Method		
12125-02-9	ammonium chloride						
	oral	LD50 1440 mg/kg	Rat				

#### Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

## **SECTION 12: Ecological information**

# 12.1. Toxicity

The product is not: Ecotoxic.



according to Regulation (EC) No 1907/2006

Buffer solution pl	H 10 (±	0.02)
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Revision date: 18.12.2017 Product code: P10-A Page 6 of 7

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
12125-02-9	ammonium chloride						
	Acute fish toxicity	LC50	209 mg/l	96 h	Cyprinus carpio	IUCLID	
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna		
1336-21-6	Ammonia						
	Acute fish toxicity	LC50 mg/l	0,53		Onchorhynchus mykiss		
	Acute crustacea toxicity	EC50	24 mg/l	48 h	Daphnia magna		

#### 12.2. Persistence and degradability

The product has not been tested.

## 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
12125-02-9	ammonium chloride	-4,37
1336-21-6	Ammonia	-1,38

#### 12.4. Mobility in soil

The product has not been tested.

## 12.5. Results of PBT and vPvB assessment

The product has not been tested.

## 12.6. Other adverse effects

No information available.

#### **Further information**

Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

## **SECTION 14: Transport information**

## 14.6. Special precautions for user

No information available.

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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: Ammonia

Entry 65: ammonium chloride



according to Regulation (EC) No 1907/2006

Buffer solution pH 10 (± 0,02)

Revision date: 18.12.2017 Product code: P10-A Page 7 of 7

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

Information according to 2012/18/EU

(SEVESO III):

#### **Additional information**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile

work protection guideline' (94/33/EC).

Water contaminating class (D): 1 - slightly water contaminating

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

#### 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%

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

<u> </u>					
Classification	Classification procedure				
Skin Irrit. 2; H315	Calculation method				
Eye Dam. 1; H318	Calculation method				

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

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

## **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.

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