



according to Regulation (EC) No 1907/2006

LCW 820 Phosphax-inter, Reagent

Revision date: 04.09.2017 Product code: LCW820 Page 1 of 8

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

1.1. Product identifier

LCW 820 Phosphax-inter, Reagent

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

Use of the substance/mixture

Water analysis

1.3. Details of the supplier of the safety data sheet

Company name: HACH LANGE GmbH
Street: Willstätterstr. 11
Place: D-40549 Düsseldorf
Telephone: +49 (0)211 5288-383
e-mail: SDS@hach.com
Internet: www.de.hach.com
Responsible Department: HACH LANGE Ltd.
5, Pacific Way

Salford Manchester M50 1DL - United Kingdom Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324

e-Mail: info-uk@hach.com

HACH LANGE Ltd.

Unit 1, Chestnut Road Western Industrial Estate

IRL-Dublin 12

Tel. +353 (0)1 4602522 e-Mail: info-ie@hach.com

1.4. Emergency telephone Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency

number: service -

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Skin corrosion/irritation: Skin Corr. 1A Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

sulphuric acid ... %

Signal word: Danger

Pictograms:



Hazard statements

H290 May be corrosive to metals.



according to Regulation (EC) No 1907/2006

LCW 820 Phosphax-inter, Reagent

Revision date: 04.09.2017 Product code: LCW820 Page 2 of 8

H314 Causes severe skin burns and eye damage.

Precautionary statements

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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.

Immediately call a POISON CENTER/doctor.

Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

2.3. Other hazards

P310

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regulation (EC) No. 1272/2008 [CLP]				
7732-18-5	Water				
	231-791-2				
7664-93-9	sulphuric acid %				
	231-639-5	016-020-00-8			
	Skin Corr. 1A; H314				
12054-85-2	Ammonium heptamolybdate tetrahydrate				
	234-722-4				
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H302 H315 H319 H335				
7803-55-6	Ammonium monovanadate				
	232-261-3				
	Muta. 2, Acute Tox. 1, Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Chronic 2; H341 H330 H301 H315 H319 H335 H411				

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off all contaminated clothing immediately.

Consult a physician. Show this safety data sheet to the doctor in attendance.

After inhalation

Move to fresh air.

After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. Consult a physician. Show this safety data sheet to the doctor in attendance.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Show this safety data



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Safety Data Sheet

HACH LANGE GmbH

according to Regulation (EC) No 1907/2006

LCW 820 Phosphax-inter, Reagent

Revision date: 04.09.2017 Product code: LCW820 Page 3 of 8

sheet to the doctor in attendance.

After ingestion

Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting.

Consult a physician. Show this safety data sheet to the doctor in attendance.

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

Irritation and corrosion

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste.

6.4. Reference to other sections

13. Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Do not breathe vapours/dust.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a dry place.

7.3. Specific end use(s)

Reagent for analysis

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



according to Regulation (EC) No 1907/2006

LCW 820 Phosphax-inter, Reagent

Revision date: 04.09.2017 Product code: LCW820 Page 4 of 8

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin	
7664-93-9	Sulphuric acid (mist)	-	0.05		TWA (8 h)	WEL	

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Eye/face protection

Safety glasses with side-shields

Hand protection

Use barrier skin cream.

Wash hands before breaks and after work.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Skin protection

Remove and wash contaminated clothing before re-use.

Respiratory protection

Breathing apparatus only if aerosol or dust is formed.

Recommended Filter type: ABEK-filter

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: yellow
Odour: odourless

pH-Value (at 20 °C):

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

not applicable
Pour point:

no data available
no data available
Flash point:

no data available

Flammability

Solid: no data available
Gas: no data available

Explosive properties

not applicable

Lower explosion limits:

Upper explosion limits:

Ignition temperature:

not applicable

not applicable

not applicable

Auto-ignition temperature

Solid: no data available





according to Regulation (EC) No 1907/2006

LCW 820 Phosphax-inter, Reagent

Revision date: 04.09.2017 Product code: LCW820 Page 5 of 8

Gas: no data available

Decomposition temperature: no data available

Oxidizing properties

not applicable

Vapour pressure: approx. 20 hPa

(at 20 °C)

Vapour pressure:

Density (at 20 °C):

Bulk density:

National of the properties of

Solubility in other solvents

soluble

Partition coefficient: no data available Viscosity / dynamic: no data available no data available Viscosity / kinematic: no data available Flow time: Vapour density: no data available Evaporation rate: no data available no data available Solvent separation test: Solvent content: no data available

9.2. Other information

Solid content: no data available

Corrosive in contact with metals

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Reacts with the following substances: Bases

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Sulphur trioxide, Sulphur oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

No toxicology information is available.

Acute toxicity

No data is available on the product itself.



according to Regulation (EC) No 1907/2006

LCW 820 Phosphax-inter, Reagent

Revision date: 04.09.2017 Product code: LCW820 Page 6 of 8

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
12054-85-2	Ammonium heptamolybdate tetrahydrate					
	oral	ATE mg/kg	500			
7803-55-6	Ammonium monovanadate					
	oral	LD50 mg/kg	58,1	Ratte		
	dermal	LD50 mg/kg	2100	Ratte		
	inhalation vapour	ATE	0,05 mg/l			
	inhalation (4 h) aerosol	LC50 mg/l	0,008	Ratte		

Irritation and corrosivity

The product causes burns of eyes, skin and mucous membranes.

Sensitising effects

No sensitisation responses were observed.

Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

No aspiration toxicity classification

Specific effects in experiment on an animal

No toxicology information is available.

Additional information on tests

None known.

Practical experience

Observations relevant to classification

None known.

Other observations

None known.

Further information

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1. Toxicity

Do not flush into surface water or sanitary sewer system.

· · · · · · · · · · · · · · · · · · ·							
CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
12054-85-2	Ammonium heptamolybda	Ammonium heptamolybdate tetrahydrate					
	Acute fish toxicity	LC50	420 mg/l	96 h			
	Acute crustacea toxicity	EC50	140 mg/l	48 h			
7803-55-6	Ammonium monovanadate						
	Acute fish toxicity	LC50	2,6 mg/l	96 h	Ictalurus catus		





according to Regulation (EC) No 1907/2006

LCW 820 Phosphax-inter, Reagent

Revision date: 04.09.2017 Product code: LCW820 Page 7 of 8

12.2. Persistence and degradability

No data is available on the product itself.

The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

No data is available on the product itself.

12.4. Mobility in soil

No data is available on the product itself.

12.5. Results of PBT and vPvB assessment

No data is available on the product itself.

12.6. Other adverse effects

Discharge into the environment must be avoided.

Further information

Ecological injuries are not known or expected under normal use.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of used product

160505 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; gases in pressure containers other than those mentioned in 16 05 04

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:UN 279614.2. UN proper shipping name:Sulphuric acid

14.3. Transport hazard class(es): 8
14.4. Packing group: ||

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

Not tested

Marine transport (IMDG)

14.1. UN number:UN 279614.2. UN proper shipping name:Sulphuric acid

14.3. Transport hazard class(es):814.4. Packing group:IIMarine pollutant:--

EmS: F-A,S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:UN 279614.2. UN proper shipping name:Sulphuric acid

14.3. Transport hazard class(es): 8
14.4. Packing group: |



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Safety Data Sheet

HACH LANGE GmbH

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LCW 820 Phosphax-inter, Reagent

Revision date: 04.09.2017 Product code: LCW820 Page 8 of 8

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

no data available

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

Not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

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

Changes

Revision: 4.09.2017

This data sheet contains changes from the previous version in section(s): 2, 11

Revision: 12.12.2014

This data sheet contains changes from the previous version in section(s): 2

Revision: 23.05.2013

This data sheet contains changes from the previous version in section(s): 4-16

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H411	Toxic to aquatic life with long lasting effects.

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