according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, Sample cuvette; 1/4

Revision date: 19.09.2019

Product code: LCK349-1

Page 1 of 9

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

#### 1.1. Product identifier

LCK 349 Phosphat/Phosphate, Sample cuvette; 1/4

### 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: Street: Place:	HACH LANGE GmbH Willstätterstr. 11 D-40549 Düsseldorf
Telephone: e-mail: Internet: Responsible Department:	+49 (0)211 5288-383 SDS@hach.com www.de.hach.com 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 number:	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency 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 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 11 %

Signal word:

Pictograms:



Danger

#### **Hazard statements**

H290 H314

May be corrosive to metals. Causes severe skin burns and eye damage.

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, Sample cuvette; 1/4

Revision date: 19.09.2019 Product code: LCK349-1 Page 2 of 9 **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. P310 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

None known.

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

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			
	EC No	Index No	REACH No	
	GHS Classification	•	•	
7732-18-5	Water			>85 %
	231-791-2			
7664-93-9	sulphuric acid %			11 %
	231-639-5	016-020-00-8		
	Skin Corr. 1A; H314			

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 contaminated clothing and shoes immediately. Show this safety data sheet to the doctor in attendance.

#### After inhalation

Move to fresh air.

If symptoms persist, call a physician.

### After contact with skin

Wash off immediately with plenty of water.

#### After contact with eyes

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

### After ingestion

Clean mouth with water and drink afterwards plenty of water.

### 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**

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, Sample cuvette; 1/4

Revision date: 19.09.2019

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#### 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.

### Unsuitable extinguishing media

None known.

#### 5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.

In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

#### 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. Only qualified personnel equipped with suitable protective equipment may intervene. Immediately evacuate personnel to safe areas.

Do not breathe vapours, mist or gas.

### 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. Avoid contact with skin and eyes. Do not breathe vapours/dust.

#### Advice on protection against fire and explosion

None known.

See also section 5

### Further information on handling

Observe label precautions.

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

#### Requirements for storage rooms and vessels

Keep in a dry, cool place. Storage temperature: 15 - 25°C

#### 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

### LCK 349 Phosphat/Phosphate, Sample cuvette; 1/4

Revision date: 19.09.2019

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#### 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

### Additional advice on limit values

None known.

#### 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

#### 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. Wash hands before breaks and after work.

General industrial hygiene practice.

#### Eye/face protection

Safety glasses with side-shields

#### Hand protection

Use barrier skin cream.

The protective gloves to be used must comply with the specifications of EC directive 2016/425/EC and the resultant standard EN374.

In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0.40 mm, Breakthrough time: > 30 min

#### Skin protection

Remove and wash contaminated clothing before re-use.

#### Respiratory protection

Breathing apparatus needed only when aerosol or mist is formed. ABEK-filter

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

#### 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	liquid colourless odourless	
pH-Value (at 20 °C):	ououness	1
Changes in the physical state		
Melting point:		not applicable
Initial boiling point and boiling range:		approx.100 °C
Sublimation point:		not applicable
Softening point:		not applicable
Pour point:		no data available
:		no data available
Flash point:		not applicable
Flammability		
Solid:		not applicable
Gas:		not applicable
Explosive properties not applicable		

according to Regulation (EC) No 1907/2006

LCK 34	l9 Phosphat/Phosphate, Sample cuvette; 1/4	
Revision date: 19.09.2019	Product code: LCK349-1	Page 5 of 9
Lower explosion limits:	not applicable	
Upper explosion limits:	not applicable	
Ignition temperature:	not applicable	
Auto-ignition temperature Solid: Gas:	not applicable not applicable not applicable	
Decomposition temperature:	not applicable	
Oxidizing properties not applicable		
Vapour pressure: (at 10 °C)	15 hPa	
Vapour pressure:	no data available	
Density (at 20 °C):	1,04 g/cm³	
Bulk density:	not applicable	
Water solubility: (at 20 °C)	completely soluble	
Solubility in other solvents no data available		
Partition coefficient:	no data available	
Viscosity / dynamic:	no data available	
Viscosity / kinematic:	no data available	
Flow time:	no data available	
Vapour density:	no data available	
Evaporation rate:	no data available	
Solvent separation test:	no data available	
Solvent content:	no data available	
9.2. Other information		
Solid content:	no data available	
no data available		
SECTION 10: Stability and reactivity		

### **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

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

None known.

# 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed. Contact with metals liberates hydrogen gas.

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, Sample cuvette; 1/4

Revision date: 19.09.2019

Product code: LCK349-1

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### **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.

### Irritation and corrosivity

The product causes irritation 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 data is available on the product itself.

#### Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

### 12.2. Persistence and degradability

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

#### 12.3. Bioaccumulative potential

no data available

### 12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

no data available

#### 12.6. Other adverse effects

no data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Our local agencies will accept used cuvettes to ensure their proper disposal. In accordance with local and national regulations.

#### List of Wastes Code - residues/unused products

according to Regulation (EC) No 1907/2006

according to Regulation (EC) No 1907/2006					
Revision date: 19		49 Phosphat/Phosphate, Sample cuvette; 1/4 Product code: LCK349-1	Page 7 of 9		
160506	discarded chemicals; lat	WISE SPECIFIED IN THE LIST; gases in pressure containers and poratory chemicals, consisting of or containing hazardous substances, poratory chemicals; hazardous waste	5		
List of Waste 160506	List of Wastes Code - used product 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				
SECTION 14: T	ransport information				
Land transport (	ADR/RID)				
<u>14.1. UN num</u>	-	UN 3316			
	per shipping name:	Chemical kit			
	ort hazard class(es):	9			
14.4. Packing		II			
Hazard label:	<u>group.</u>	9			
Classification	code:	M11			
Special Provis		251 340			
Limited quant		SP251			
Excepted qua		SP340			
Transport cate Hazard No:	egory:	2			
Tunnel restric	tion code:	E			
	s transport (ADN)	-			
	ble information (inland w	/aterways transport)			
Marine transport					
-		UN 3316			
<u>14.1. UN num</u>					
	ber shipping name:				
	ort hazard class(es):	9			
14.4. Packing					
Hazard label:		9			
Marine polluta	ant:				
Special Provis		251, 340			
Limited quant		See SP251			
Excepted qua EmS:	ntity:	SP340 F-A, S-P			
	AO-TI/IATA-DGR)				
<u>14.1. UN num</u>	-	UN 3316			
	ber shipping name:	CHEMICAL KIT			
	ort hazard class(es):	9			
14.4. Packing					
Hazard label:		9			

according to Regulation (EC) No 1907/2006

	according to Regulation (EC) No 1907/2006	
L	CK 349 Phosphat/Phosphate, Sample cuvette; 1/4	
Revision date: 19.09.2019	Product code: LCK349-1	Page 8 of 9
Special Provisions: Limited quantity Passenger:	A44 A163 1 kg	
Passenger LQ: Excepted quantity:	Y960 E0	
IATA-packing instructions - Passe IATA-max. quantity - Passenger: IATA-packing instructions - Cargo IATA-max. quantity - Cargo:	enger: 960 10 kg	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDO	DUS: no	
14.6. Special precautions for user Use personal protective equip	pment.	
14.7. Transport in bulk according to Not relevant	o Annex II of Marpol and the IBC Code	
Other applicable information These transport data apply to	o the entire pack	
SECTION 15: Regulatory inform	action	
SECTION 13. Regulatory month		
	ntal regulations/legislation specific for the substance or mixture	
National regulatory information		
Water contaminating class (D):	1 - slightly water contaminating	
15.2. Chemical safety assessment		
	s for substances in this mixture were not carried out.	
<b>SECTION 16: Other information</b>		
Changes Revision Date 19.09.2019 Safety datasheet sections wh Revision Date 17.03.2017 Safety datasheet sections wh	nich have been updated: 8, 15 nich have been updated: 14	
Revision: 30.03.2016 Safety datasheet sections wh Revision: 28.07.2014 Revision: 2	nich have been updated: 7	
Revision: 10.09.2013 Revision: 4-16		
	e corrosive to metals.	
H314 Cause	es severe skin burns and eye damage.	

**Further Information** 

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.

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, Sample cuvette; 1/4

Revision date: 19.09.2019

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

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, DosiCapZip; 2/4

Revision date: 19.09.2019

Product code: LCK349-2

Page 1 of 9

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

#### 1.1. Product identifier

LCK 349 Phosphat/Phosphate, DosiCapZip; 2/4

### 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: Street: Place:	HACH LANGE GmbH Willstätterstr. 11 D-40549 Düsseldorf
Telephone: e-mail: Internet: Responsible Department:	+49 (0)211 5288-383 SDS@hach.com www.de.hach.com 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
<u>1.4. Emergency telephone</u> number:	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service -

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Hazard categories: Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Resp. Sens. 1 Respiratory or skin sensitisation: Skin Sens. 1 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Harmful if swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction.

#### 2.2. Label elements

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

#### Hazard components for labelling

Sodium peroxidisulfate Sodium metaborate Lithium sulfate monohydrate

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, DosiCapZip; 2/4

evision date: 19.09.2019	Product code: LCK349-2	Page 2 of
Signal word:	Danger	
Pictograms:		
Hazard statements		
H302	Harmful if swallowed.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H335	May cause respiratory irritation.	
H319	Causes serious eye irritation.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
Precautionary statemer	nts	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.	
Additional advice on la	belling	
The product is classi	fied as dangerous in accordance with Regulation (EC) No. 1272/2008.	
.3. Other hazards		

None known.

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

### 3.2. Mixtures

### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
7775-27-1	Sodium peroxidisulfate			> 70 %
	231-892-1			
	Ox. Sol. 3, Acute Tox. 4, Skin Irrit. 2 H302 H315 H319 H334 H317 H335	, Eye Irrit. 2, Resp. Sens. 1, Skin Se	ns. 1, STOT SE 3; H272	
10555-76-7	Sodium metaborate			
	231-891-6			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3	; H315 H319 H335		
10102-25-7	7 Lithium sulfate monohydrate			5-10 %
	233-820-4			
	Acute Tox. 4; H302	•		

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

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

### 4.1. Description of first aid measures

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, DosiCapZip; 2/4

Revision date: 19.09.2019

Product code: LCK349-2

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### **General information**

Take off all contaminated clothing immediately. Consult a physician.

### After inhalation

Move to fresh air.

#### After contact with skin

Wash off immediately with plenty of water. If symptoms persist, call 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.

#### After ingestion

Clean mouth with water and drink afterwards plenty of water. Consult a physician.

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

Irritation and corrosion, Allergic reactions, Cough, Shortness of breath

#### 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.

#### Unsuitable extinguishing media

None known.

#### 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. Use personal protective equipment.

#### 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

Use mechanical handling equipment.

### 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.

Further information on handling

### Use barrier skin cream.

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

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, DosiCapZip; 2/4

Revision date: 19.09.2019

Product code: LCK349-2

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#### Requirements for storage rooms and vessels

Keep in a dry, cool place.

Storage temperature: 15 - 25°C

### 7.3. Specific end use(s)

Reagent for analysis

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

#### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7775-27-1	(OLD) Disodium peroxodisulphate (measured as [S2O8])	-	1		TWA (8 h)	OES

#### Additional advice on limit values

None known.

### 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

#### 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.

The protective gloves to be used must comply with the specifications of EC directive 2016/425/EC and the resultant standard EN374.

In case of full contact:

Glove material : Nitrile rubber Layer thickness: 0,11 mm Break through time: >480 min

In case of contact through splashing: Glove material : Nitrile rubber Layer thickness: 0,11 mm Break through time: >480 min

#### Skin protection

Avoid contact with skin and eyes.

# Respiratory protection

Breathing apparatus only if aerosol or dust is formed. ABEK-filter

#### **Environmental exposure controls**

Do not flush into surface water or sanitary sewer system.

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

### 9.1. Information on basic physical and chemical properties

Physical state:	solid (lyophilised)
Colour:	white

according to Regulation (EC) No 1907/2006

LCK 349 Phosphat/Phosphate, DosiCapZip; 2/4   Revision date: 19.09.2019 Product code: LCK349-2 Page 5					
Odour:	odourless				
pH-Value (at 20 °C):	4,5 (35 % solution)				
Changes in the physical state	· · · · · · · · · · · · · · · · · · ·				
Melting point:	no data available				
Initial boiling point and boiling range:	not applicable				
Sublimation point:	not applicable				
Softening point:	not applicable				
Pour point:	not applicable				
:	not applicable				
Flash point:	not applicable				
Flammability					
Solid:	not applicable				
Gas:	not applicable				
Explosive properties not applicable					
Lower explosion limits:	not applicable				
Upper explosion limits:	not applicable				
Ignition temperature:	not applicable				
Auto-ignition temperature					
Solid:	not applicable				
Gas:	not applicable				
Decomposition temperature:	not applicable				
Oxidizing properties The product has been shown not to b oxidising properties).	be oxidising in a test following Directive 67/548/EEC (Method A	17,			
Vapour pressure:	no data available				
Vapour pressure:	no data available				
Density:	no data available				
Bulk density:	no data available				
Water solubility: (at 20 °C)	completely soluble				
Solubility in other solvents no data available					
Partition coefficient:	not applicable				
Viscosity / dynamic:	not applicable				
Viscosity / kinematic:	not applicable				
Flow time:	not applicable				
Vapour density:	not applicable				
Evaporation rate:	not applicable				
Solvent separation test:	not applicable				
Solvent content:	not applicable				
9.2. Other information					
Solid content:	not applicable				
not applicable					

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, DosiCapZip; 2/4

Revision date: 19.09.2019

Product code: LCK349-2

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

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

No data is available on the product itself.

#### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

No decomposition if used as directed.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

### Acute toxicity

Harmful if swallowed.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
7775-27-1	Sodium peroxidisulfate					
	oral	LD50 mg/kg	920	rat		
	inhalation (4 h) aerosol	LC50 mg/l	> 5,1	Merck		
10102-25-7	Lithium sulfate monohydrate					
	oral	LD50 mg/kg	613	rat		

### Irritation and corrosivity

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

#### Sensitising effects

May cause sensitisation by inhalation and skin contact.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

### STOT-single exposure

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

#### 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.

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, DosiCapZip; 2/4

Revision date: 19.09.2019

Product code: LCK349-2

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#### Further information

Handle in accordance with good industrial hygiene and safety practice. Other dangerous properties can not be excluded. 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
7775-27-1	Sodium peroxidisulfate						
	Acute fish toxicity	LC50	771 mg/l		Oncorhynchus mykiss (rainbow trout)		
	Acute crustacea toxicity	EC50	133 mg/l		Daphnia magna (Water flea)		

### 12.2. Persistence and degradability

No data is available on the product itself.

### 12.3. Bioaccumulative potential

no data available

### 12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

no data available

### 12.6. Other adverse effects

No known effect.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Disposal recommendations**

Our local agencies will accept used cuvettes to ensure their proper disposal. In accordance with local and national regulations.

#### List of Wastes Code - 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

#### List of Wastes Code - used product

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

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 3316
14.2. UN proper shipping name:	Chemical kit
14.3. Transport hazard class(es):	9
14.4. Packing group:	II
Hazard label:	9

according to Regulation (EC) No 1907/2006

LCK 349 Phosphat/Phosphate, DosiCapZip; 2/4			
	Product code: LCK349-2	Dogo 9 of 0	
Revision date: 19.09.2019	Product code. LCK349-2	Page 8 of 9	
Classification code:	M11		
Special Provisions:	251 340		
Limited quantity:	SP251		
Excepted quantity:	SP340		
Transport category: Hazard No:	2		
Hazard No: Tunnel restriction code:	E		
Inland waterways transport (ADN)	E		
Other applicable information (inland wa	terways transport)		
Not tested			
Marine transport (IMDG)			
<u>14.1. UN number:</u>	UN 3316		
14.2. UN proper shipping name:	CHEMICAL KIT		
14.3. Transport hazard class(es):	9		
14.4. Packing group:	II		
Hazard label:	9		
	e		
Marine pollutant:	 251, 340		
Special Provisions: Limited quantity:	See SP251		
Excepted quantity:	SP340		
EmS:	F-A, S-P		
Air transport (ICAO-TI/IATA-DGR)			
<u>14.1. UN number:</u>	UN 3316		
14.2. UN proper shipping name:	CHEMICAL KIT		
14.3. Transport hazard class(es):	9		
14.4. Packing group:	II		
Hazard label:	9		
Special Provisions:	A44 A163		
Limited quantity Passenger:	1 kg		
Passenger LQ:	Y960		
Excepted quantity:	EO		
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	960 10 kg		
IATA-max. quantity - rassenger. IATA-packing instructions - Cargo:	960		
IATA-max. quantity - Cargo:	10 kg		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	no		
<u>14.6. Special precautions for user</u> no data available			
		D. 14 July 20 40 2040	

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, DosiCapZip; 2/4

Revision date: 19.09.2019

Product code: LCK349-2

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

Not relevant

### Other applicable information

These transport data apply to the entire pack

### **SECTION 15: Regulatory information**

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

### National regulatory information

slightly water contaminating

# Water contaminating class (D): **15.2. Chemical safety assessment**

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

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

#### Changes

Revision: 19.09.2019 Safety datasheet sections which have been updated: 8, 11, 15 Revision Date 17.03.2017 Safety datasheet sections which have been updated: 14 Revision: 30.03.2016 Safety datasheet sections which have been updated: 7 Revision: 22..12.2015 Safety datasheet sections which have been updated: 2, 3 Revision: 7..12.2015 Safety datasheet sections which have been updated: 2 Revision: 14.10.2015 Safety datasheet sections which have been updated: 9 Revision: 28.07.2014 Revision: 2 Revision: 10.09.2013 Revision: 4-16

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

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

#### **Further Information**

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

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, LCK 349 B; 3/4

Revision date: 19.09.2019

Product code: LCK349-3

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

#### 1.1. Product identifier

LCK 349 Phosphat/Phosphate, LCK 349 B; 3/4

### 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: Street: Place:	HACH LANGE GmbH Willstätterstr. 11 D-40549 Düsseldorf
Telephone: e-mail: Internet: Responsible Department:	+49 (0)211 5288-383 SDS@hach.com www.de.hach.com 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 <u>number:</u>	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency 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 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 16 %

Signal word:

Pictograms:



Danger

#### Hazard statements

H290 H314

May be corrosive to metals. Causes severe skin burns and eye damage.

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, LCK 349 B; 3/4

Revision date: 19.09.2019

Product code: LCK349-3

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#### **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.
P310	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

None known.

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

### 3.2. Mixtures

### Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	GHS Classification	•	•		
7732-18-5	Water			>80 %	
	231-791-2				
7664-93-9	sulphuric acid %			16 %	
	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 Irr	it. 2, STOT SE 3; H302 H315	H319 H335		
5329-14-6	sulphamidic acid; sulphamic acid; sulfamic acid				
	226-218-8	016-026-00-0			
	Skin Irrit. 2, Eye Irrit. 2, Aquatic				
28300-74-5	Potassium antimony(III) oxide tartrate hemihydrate				
	234-293-3	051-003-00-9			
	Acute Tox. 4, Acute Tox. 4, Aquatic Chronic 2; H332 H302 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.

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, LCK 349 B; 3/4

Revision date: 19.09.2019

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#### After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Show this safety data 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. Storage temperature: 15 - 25°C

#### 7.3. Specific end use(s)

Reagent for analysis

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

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, LCK 349 B; 3/4

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### 8.1. Control parameters

#### 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

#### Additional advice on limit values

None known.

#### 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

### 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.

The protective gloves to be used must comply with the specifications of EC directive 2016/425/EC and the resultant standard EN374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

#### 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 colourless	
Colour:		
Odour:	odourless	
pH-Value (at 230 °C):		1
Changes in the physical state		
Melting point:		<-4 °C
Initial boiling point and boiling range:		>100 °C
Sublimation point:		not applicable
Softening point:		not applicable
Pour point:		not applicable
:		not applicable
Flash point:		not applicable
Flammability		
Solid:		not applicable
Gas:		not applicable

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, LCK 349 B; 3/4

Revision date: 19.09.2019	Product code: LCK349-3	Page 5 of 9
Explosive properties not applicable		
Lower explosion limits:	not applicable	
Upper explosion limits:	not applicable	
Ignition temperature:	not applicable	
Auto-ignition temperature Solid: Gas:	not applicable not applicable	
Decomposition temperature:	not applicable	
Oxidizing properties not applicable		
Vapour pressure: (at 20 °C)	20 hPa	
Vapour pressure:	no data available	
Density (at 20 °C): Bulk density:	1,11 g/cm³ not applicable	
Water solubility:	no data available	
Solubility in other solvents no data available		
Partition coefficient:	no data available	
Viscosity / dynamic:	no data available	
Viscosity / kinematic:	no data available	
Flow time:	no data available	
Vapour density:	no data available	
Evaporation rate:	no data available	
Solvent separation test:	no data available	
Solvent content:	no data available	
9.2. Other information		
Solid content:	not applicable	

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

### 10.1. Reactivity

May be corrosive to metals.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

# 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

Sulphur trioxide, Sulphur oxides

### **SECTION 11: Toxicological information**

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, LCK 349 B; 3/4

Revision date: 19.09.2019

Product code: LCK349-3

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### 11.1. Information on toxicological effects

### Acute toxicity

No data is available on the product itself.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
12054-85-2	Ammonium heptamolybd	Ammonium heptamolybdate tetrahydrate				
	oral	ATE mg/kg	500			
5329-14-6	sulphamidic acid; sulphamic acid; sulfamic acid					
	oral	LD50 mg/kg	1450	Rat		
28300-74-5	Potassium antimony(III) o	Potassium antimony(III) oxide tartrate hemihydrate				
	oral	ATE mg/kg	500			
	inhalation vapour	ATE	11 mg/l			
	inhalation aerosol	ATE	1,5 mg/l			

#### Irritation and corrosivity

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

### Sensitising effects

No known effect.

#### STOT-single exposure

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

#### 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.

#### Further information

Other dangerous properties can not be excluded. 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 heptamolybdate tetrahydrate						
	Acute fish toxicity	LC50	420 mg/l	96 h			
	Acute crustacea toxicity	EC50	140 mg/l	48 h			
5329-14-6	sulphamidic acid; sulphamic acid; sulfamic acid						
	Acute fish toxicity	LC50 mg/l	70,3	96 h	Pimephales promelas		

### 12.2. Persistence and degradability

No data is available on the product itself.

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, LCK 349 B; 3/4

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### 12.3. Bioaccumulative potential

no data available

# 12.4. Mobility in soil

no data available

# 12.5. Results of PBT and vPvB assessment

no data available

### 12.6. Other adverse effects

No known effect.

### **Further information**

Discharge into the environment must be avoided.

#### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

### **Disposal recommendations**

Our local agencies will accept used cuvettes to ensure their proper disposal. In accordance with local and national regulations.

#### List of Wastes Code - 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

### List of Wastes Code - 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)

<u>14.1. UN number:</u>	UN 3316
14.2. UN proper shipping name:	Chemical kit
14.3. Transport hazard class(es):	9
14.4. Packing group:	II
Hazard label:	9
Classification code:	M11
Special Provisions:	251 340
Limited quantity:	SP251
Excepted quantity:	SP340
Transport category:	2
Hazard No:	-
Tunnel restriction code:	E
Inland waterways transport (ADN)	
Other applicable information (inlan Not tested	d waterways transport)
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 3316
14.2. UN proper shipping name:	CHEMICAL KIT

according to Regulation (EC) No 1907/2006

LCK Revision date: 19.09.2019	-	osphate, LCK 349 B; 3/4 de: LCK349-3	Page 8 of 9
14.3. Transport hazard class(es):	9		
14.4. Packing group:	II		
Hazard label:	9		
Marine pollutant:			
Special Provisions:	251, 340		
Limited quantity:	See SP251		
Excepted quantity:	SP340		
EmS:	F-A, S-P		
Air transport (ICAO-TI/IATA-DGR)			
<u>14.1. UN number:</u>	UN 3316		
14.2. UN proper shipping name:	CHEMICAL KIT		
14.3. Transport hazard class(es):	9		
14.4. Packing group:			
Hazard label:	9		
Special Provisions:	A44 A163		
Limited quantity Passenger:	1 kg		
Passenger LQ:	Y960		
Excepted quantity:	E0		
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:		960 10 kg	
IATA-max. quality - Passenger. IATA-packing instructions - Cargo:		960	
IATA-max. quantity - Cargo:		10 kg	
14.5. Environmental hazards		ů.	
ENVIRONMENTALLY HAZARDOUS:	no		
<b><u>14.6. Special precautions for user</u></b> Use personal protective equipment.			
14.7. Transport in bulk according to Annex Not relevant	II of Marpol and the I	BC Code	
Other applicable information			
These transport data apply to the enti	re pack		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regu	ulations/legislation sp	pecific for the substance or mixture	
National regulatory information			
Water contaminating class (D):	1 - slightly water co	ontaminating	
15.2. Chemical safety assessment			
Chemical safety assessments for sub	stances in this mixture	were not carried out.	
SECTION 16: Other information			

Revision: 19.09.2019

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate, LCK 349 B; 3/4

Revision date: 19.09.2019

Product code: LCK349-3

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Safety datasheet sections which have been updated: 8, 15 Revision: 30.03.2016 Safety datasheet sections which have been updated: 7 Revision: 28.07.2014 Revision: 2

Revision: 10.09.2013 Revision: 4-16

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### **Further Information**

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

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate; LCK 349 DosiCap C; 4/4

Revision date: 19.09.2019

Product code: LCK349-4

Page 1 of 8

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

### 1.1. Product identifier

LCK 349 Phosphat/Phosphate; LCK 349 DosiCap C; 4/4

### 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 -
Further Information	

Water analysis

#### **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 eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

#### 2.2. Label elements

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

#### Hazard components for labelling Sodium metaborate

Signal word: Warning

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate; LCK 349 DosiCap C; 4/4

Product code: LCK349-4 Revision date: 19.09.2019 Page 2 of 8 **Pictograms:** Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. **Precautionary statements** P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.

#### Additional advice on labelling

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

#### 2.3. Other hazards

None known.

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

#### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	GHS Classification				
50-81-7	Ascorbic acid				
	200-066-2				
10555-76-7	Sodium metaborate				
	231-891-6				
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335				
9004-54-0	Dextran			>15 %	
	232-677-5				

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.

### After inhalation

Move to fresh air.

#### After contact with skin

Wash off immediately with plenty of water.

#### After contact with eyes

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

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate; LCK 349 DosiCap C; 4/4

Revision date: 19.09.2019

Product code: LCK349-4

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### After ingestion

Clean mouth with water and drink afterwards plenty of water. Consult a physician.

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

No known effect.

### 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. Use personal protective equipment.

#### 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

#### Use mechanical handling equipment.

### 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.

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

#### Requirements for storage rooms and vessels

Keep in a dry place.

Storage temperature: 15 - 25°C

### 7.3. Specific end use(s)

Reagent for analysis

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

#### 8.1. Control parameters

Additional advice on limit values None known.

#### 8.2. Exposure controls

according to Regulation (EC) No 1907/2006

### LCK 349 Phosphat/Phosphate; LCK 349 DosiCap C; 4/4

Revision date: 19.09.2019

Product code: LCK349-4

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#### Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

#### 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.

The protective gloves to be used must comply with the specifications of EC directive 2016/425/EC and the resultant standard EN374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

#### **Respiratory protection**

Provide adequate ventilation.

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

### 9.1. Information on basic physical and chemical properties

Physical state: Colour:	solid (lyophilised) white	
Odour:	odourless	
pH-Value (at 20 °C):		4-4,5
Changes in the physical state		
Melting point:		192 °C
Initial boiling point and boiling range:		not applicable
Sublimation point:		no data available
Softening point:		no data available
Pour point:		not applicable
:		no data available
Flash point:		not applicable
Flammability		
Solid:		not applicable
Gas:		not applicable
Explosive properties not applicable		
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Ignition temperature:		not applicable
Auto-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Decomposition temperature:		not applicable
Oxidizing properties not applicable		

according to Regulation (EC) No 1907/2006

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Vapour p	pressure:		no	data available	
	pressure:		no	data available	
Density:			no	data available	
Bulk der	nsity:		6	600-900 kg/m³	
Water so			no	data available	
	<b>ty in other solvents</b> ata available				
Partition	coefficient:		I	not applicable	
Viscosity	y / dynamic:		I	not applicable	
Viscosity	y / kinematic:		I	not applicable	
Flow tim	ie:		I	not applicable	
Vapour o	density:		1	not applicable	
Evapora	ation rate:		1	not applicable	
Solvent	separation test:		I	not applicable	
Solvent	content:		I	not applicable	
9.2. Other i	nformation				
Solid co	ntent:		I	not applicable	
SECTION	10: Stability and reac	tivity			
		<b>y</b>			
<u>10.1. React</u>	t <b>ivity</b> Jangerous reaction know	n under conditions of n	ormaluaa		
	iical stability		offial use.		
	ble under recommended s	storage conditions			
	bility of hazardous reac	-			
	ardous polymerisation do				
	itions to avoid				
	e known.				
10.5. Incom	patible materials				
	e known.				
10.6. Hazar	dous decomposition pr	oducts			
No d	lecomposition if used as	directed.			
SECTION	11: Toxicological info	rmation			
<u>11.1. Inform</u>	nation on toxicological e	effects			
Acute to	oxicity				
	data is available on the pr	roduct itself.			
CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
50-81-7	Ascorbic acid			•	

### Irritation and corrosivity

oral

May cause eye and skin irritation.

LD50

mg/kg

11900

RTECS

rat

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# Sensitising effects

No known effect.

### Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

#### STOT-single exposure

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

#### 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 data is available on the product itself.

#### Further information

Other dangerous properties can not be excluded. 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.

### 12.2. Persistence and degradability

No data is available on the product itself.

### 12.3. Bioaccumulative potential

No data is available on the product itself.

### 12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

no data available

#### 12.6. Other adverse effects

No known effect.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Disposal recommendations

Our local agencies will accept used cuvettes to ensure their proper disposal. In accordance with local and national regulations.

#### List of Wastes Code - 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

#### List of Wastes Code - used product

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

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number:

UN 3316

according to Regulation (EC) No 1907/2006

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	LCK 349 Phosphat/Phosphate; LCK 349 DosiCap C; 4/4						
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14.2. UN proper shipping name:	Chemical kit						
14.3. Transport hazard class(es):	9						
14.4. Packing group:	II						
Hazard label:	9						
	9						
Classification code:	M11						
Special Provisions:	251 340						
Limited quantity:	SP251 SP340						
Excepted quantity: Transport category:	2						
Hazard No:	-						
Tunnel restriction code:	E						
Inland waterways transport (ADN)							
Other applicable information (inland wa Not tested	terways transport)						
Marine transport (IMDG)							
<u>14.1. UN number:</u>	UN 3316						
14.2. UN proper shipping name:	CHEMICAL KIT						
14.3. Transport hazard class(es):	9						
14.4. Packing group:	II						
Hazard label:	9						
	9						
Marine pollutant:							
Special Provisions:	251, 340						
Limited quantity:	See SP251						
Excepted quantity: EmS:	SP340 F-A, S-P						
Air transport (ICAO-TI/IATA-DGR)							
<u>14.1. UN number:</u>	UN 3316						
14.2. UN proper shipping name:	CHEMICAL KIT						
14.3. Transport hazard class(es):	9						
14.4. Packing group:	и П						
Hazard label:	9						
	· ·						
	AID						
	e						
Special Provisions:	A44 A163						
Limited quantity Passenger:	1 kg						
Passenger LQ:	Y960						
Excepted quantity:	E0						
IATA-packing instructions - Passenger:	960						
IATA-max. quantity - Passenger:	10 kg						
IATA-packing instructions - Cargo:	960 10 km						
IATA-max. quantity - Cargo:	10 kg						

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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

#### Other applicable information

These transport data apply to the entire pack

### **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: 19.09.2019 Safety datasheet sections which have been updated: 8, 11, 15 Revision Date 17.03.2017 Safety datasheet sections which have been updated: 14,15

Revision: 30.03.2016 Safety datasheet sections which have been updated: 7 Revision: 28.07.2014 Revision: 2

Revision: 10.09.2013 Revision: 4-16

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

H315Causes skin irritation.H319Causes serious eye irritation.H335May cause respiratory irritation.

#### **Further Information**

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