according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 A; 1/3

Revision date: 19.09.2019 Product code: LCW028-1 Page 1 of 9

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

#### 1.1. Product identifier

LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 A; 1/3

#### Further trade names

LCS 028 Kieselsäure/Silicic Acid/Silice

# 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

<u>1.4. Emergency telephone</u> 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:

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

### 2.2. Label elements

# Regulation (EC) No. 1272/2008

### Hazard components for labelling

sulphuric acid ... %

Signal word: Danger

Pictograms:



according to Regulation (EC) No 1907/2006

### LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 A; 1/3

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#### **Hazard statements**

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.

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			Quantity		
	EC No	Index No	REACH No			
	GHS Classification		•			
7732-18-5	Water					
	231-791-2					
7664-93-9	sulphuric acid %			5-10 %		
	231-639-5	016-020-00-8				
	Skin Corr. 1A; H314					
12054-85-2	Ammonium heptamolybdat	e tetrahydrate		1-5 %		
	234-722-4					
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H302 H315 H319 H335					

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.

If skin irritation persists, call a physician.

# 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.

according to Regulation (EC) No 1907/2006

### LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 A; 1/3

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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.

### 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

Sweep up or vacuum up spillage and collect in suitable container for disposal.

### 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.

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

### Requirements for storage rooms and vessels

Keep tightly closed in a dry, cool and well-ventilated place.

### 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
7664-93-9	Sulphuric acid (mist)	-	0.05		TWA (8 h)	WEL

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 A; 1/3

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#### 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 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

#### 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: colourless
Odour: odourless

pH-Value (at 20 °C):

### 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
: no data available
Flash point: not applicable
Sustaining combustion: No data available

**Flammability** 

Solid: not applicable
Gas: not applicable

#### **Explosive properties**

not applicable

Lower explosion limits:

Upper explosion limits:

Ignition temperature:

not applicable
not applicable
not applicable

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 A; 1/3

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**Auto-ignition temperature** 

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

**Oxidizing properties** 

not applicable

Vapour pressure: 20 hPa

(at 20 °C)

no data available Vapour pressure: Density (at 20 °C): 1,1 g/cm<sup>3</sup> Bulk density: not applicable Water solubility: completely soluble (at 20 °C)

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 no data available Solvent separation test: Solvent content: no data available

9.2. Other information

Solid content: not applicable

no data available

# **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

No dangerous reaction known under conditions of normal use. To avoid thermal decomposition, do not overheat.

### 10.5. Incompatible materials

Reacts violently with water.

### 10.6. Hazardous decomposition products

No decomposition if used as directed.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 A; 1/3

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### **Acute toxicity**

No data is available on the product itself.

CAS No	Chemical name						
	Exposure route	Dose	Species	Source	Method		
12054-85-2	Ammonium heptamolybda	Ammonium heptamolybdate tetrahydrate					
	oral	ATE 500 mg/kg					

#### Irritation and corrosivity

Causes skin and eye burns.

### 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 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

May cause long-term adverse effects in the aquatic environment.

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	te tetrahydrate						
	Acute fish toxicity	LC50 420 mg/l	96 h					
	Acute crustacea toxicity	EC50 140 mg/l	48 h					

### 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**

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 A; 1/3

Revision date: 19.09.2019 Product code: LCW028-1 Page 7 of 9

### 13.1. Waste treatment methods

#### **Disposal recommendations**

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

#### List of Wastes Code - contaminated packaging

160500

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

**14.1. UN number:** UN 3316 **14.2. UN proper shipping name:** Chemical kit

14.3. Transport hazard class(es):914.4. Packing group:IIHazard label:9



Classification code: M11
Special Provisions: 251 340
Limited quantity: SP251
Excepted quantity: SP340
Transport category: 2
Hazard No: -

Tunnel restriction code:

# Inland waterways transport (ADN)

### Other applicable information (inland waterways transport)

Not tested

# Marine transport (IMDG)

14.1. UN number:UN 331614.2. UN proper shipping name:CHEMICAL KIT

14.3. Transport hazard class(es):914.4. Packing group:IIHazard label:9



Marine pollutant: -

Special Provisions: 251, 340
Limited quantity: See SP251
Excepted quantity: SP340
EmS: F-A, S-P

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 A; 1/3

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### Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:UN 331614.2. UN proper shipping name:CHEMICAL KIT

14.3. Transport hazard class(es):914.4. Packing group:IIHazard label:9



Special Provisions: A44 A163
Limited quantity Passenger: 1 kg
Passenger LQ: Y960
Excepted quantity: E0

IATA-packing instructions - Passenger:960IATA-max. quantity - Passenger:10 kgIATA-packing instructions - Cargo:960IATA-max. quantity - Cargo:10 kg

### 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 Date 19.03.2019

Safety datasheet sections which have been updated: 8

Revision Date 27.03.2019

Safety datasheet sections which have been updated: 7, 11, 15, 16

Revision Date 25.04.2017

Safety datasheet sections which have been updated: 9, 14

Revision Date 15.10.2014

Safety datasheet sections which have been updated: 2.2

Revision Date 11.06.2014

Safety datasheet sections which have been updated: 4-16

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 A; 1/3 Revision date: 19.09.2019 Product code: LCW028-1 Page 9 of 9

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

Classification	Classification procedure	
Skin Corr. 1A; H314	On basis of test data	
Eye Dam. 1; H318	On basis of test data	

# 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.
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

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 B; 2/3

Revision date: 19.09.2019 Product code: LCW028-2 Page 1 of 9

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

#### 1.1. Product identifier

LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 B; 2/3

#### Further trade names

LCS 028 Kieselsäure/Silicic Acid/Silice

# 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

<u>1.4. Emergency telephone</u> 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:

Skin corrosion/irritation: Skin Corr. 1

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

### 2.2. Label elements

# Regulation (EC) No. 1272/2008

### Hazard components for labelling

oxalic acid

Signal word: Danger

Pictograms:



according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 B; 2/3

Revision date: 19.09.2019 Product code: LCW028-2 Page 2 of 9

#### **Hazard statements**

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.

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			Quantity
	EC No	Index No	REACH No	
	GHS Classification		•	
7732-18-5	Water			85-95 %
	231-791-2			
144-62-7	oxalic acid			5-10 %
	205-634-3	607-006-00-8		
	Acute Tox. 4, Acute To	ox. 4, Eye Dam. 1; H312 H302 H318		

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.

If skin irritation persists, call a physician.

# 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

according to Regulation (EC) No 1907/2006

### LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 B; 2/3

Revision date: 19.09.2019 Product code: LCW028-2 Page 3 of 9

# 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.

### 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

Sweep up or vacuum up spillage and collect in suitable container for disposal.

# 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.

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

# Requirements for storage rooms and vessels

Keep tightly closed in a dry, cool and well-ventilated place.

# 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
144-62-7	Oxalic acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

# Additional advice on limit values

None known.

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 B; 2/3

Revision date: 19.09.2019 Product code: LCW028-2 Page 4 of 9

### 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 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

#### 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: colourless
Odour: odourless

pH-Value (at 20 °C):

# Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

Pour point:

Inot applicable

not applicable

No data available

Flammability

Solid: not applicable
Gas: not applicable

# **Explosive properties**

not applicable

Lower explosion limits:

Upper explosion limits:

Iquition temperature:

not applicable
not applicable

# **Auto-ignition temperature**

Solid: not applicable

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 B; 2/3

Revision date: 19.09.2019 Product code: LCW028-2 Page 5 of 9

Gas: not applicable
Decomposition temperature: no data available

**Oxidizing properties** 

not applicable

Vapour pressure:no data availableVapour pressure:no data availableDensity (at 20 °C):1,07 g/cm³Bulk density:not applicableWater solubility:completely soluble

(at 20 °C)

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

no data available

# **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

None known.

### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

# 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

### 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 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 B; 2/3

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CAS No	Chemical name	Chemical name					
	Exposure route	Dose	Species	Source	Method		
144-62-7	oxalic acid	oxalic acid					
	oral	ATE 500 mg/kg					
	dermal	ATE 1100 mg/kg					

### Irritation and corrosivity

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

#### 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 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

May cause long-term adverse effects in the aquatic environment.

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**

In accordance with local and national regulations.

# List of Wastes Code - residues/unused products

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 B; 2/3

Revision date: 19.09.2019 Product code: LCW028-2 Page 7 of 9

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

List of Wastes Code - contaminated packaging

160500

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

UN 3316 14.1. UN number: Chemical kit 14.2. UN proper shipping name:

14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label:



Classification code: M11 Special Provisions: 251 340 Limited quantity: SP251 Excepted quantity: SP340 2 Transport category: Hazard No: Tunnel restriction code:

# Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

Not tested

Marine transport (IMDG)

UN 3316 14.1. UN number: CHEMICAL KIT 14.2. UN proper shipping name:

14.3. Transport hazard class(es): q Ш 14.4. Packing group:

Hazard label:



Marine pollutant:

Special Provisions: 251, 340 See SP251 Limited quantity: Excepted quantity: SP340 EmS: F-A, S-P

Air transport (ICAO-TI/IATA-DGR)

UN 3316 14.1. UN number: CHEMICAL KIT 14.2. UN proper shipping name:

14.3. Transport hazard class(es): 9

according to Regulation (EC) No 1907/2006

### LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 B; 2/3

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14.4. Packing group:

Ш 9 Hazard label:



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 IATA-max. quantity - Cargo: 10 kg

14.5. Environmental hazards

**ENVIRONMENTALLY HAZARDOUS:** nο

### 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 Date 19.09.2019

Safety datasheet sections which have been updated: 8

Revision Date 27.03.2019

Safety datasheet sections which have been updated: 2, 3, 11, 15, 16

Revision Date 25.04.2017

Safety datasheet sections which have been updated: 7, 9, 14

Revision Date 15.10.2014

Safety datasheet sections which have been updated: 2.2

Revision: 12.06.2014

Safety datasheet sections which have been updated: 2, 4, 6, 8-12, 14

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

Classification	Classification procedure
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	Calculation method

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

Harmful if swallowed. H302

according to Regulation (EC) No 1907/2006

LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 B; 2/3							
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H312	Harmful in contact with skin.						
H314	Causes severe skin burns and eye damage.						
H318	Causes serious eye damage.						
Further Information							
	ased on the present level of our knowledge. It does not, however, give assurance of 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

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 C; 3/3

Revision date: 19.09.2019 Product code: LCW028-3 Page 1 of 9

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

#### 1.1. Product identifier

LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 C; 3/3

#### Further trade names

LCS 028 Kieselsäure/Silicic Acid/Silice

### 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:

Serious eye damage/eye irritation: Eye Dam. 1 Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes serious eye damage. May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

# 2.2. Label elements

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

# Hazard components for labelling

Potassium disulfite

bis(4-hydroxy-N-methylanilinium) sulphate

Signal word: Danger

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 C; 3/3

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# Pictograms:





#### **Hazard statements**

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

# Precautionary statements

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

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.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

# Special labelling of certain mixtures

EUH031 Contact with acids liberates toxic gas.

#### 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		<b>4///</b>			Quantity
	EC No		Index No	REACH	No	
	GHS Classification			•		
7732-18-5	Water					80-90 %
	231-791-2					
16731-55-8	Potassium disulfite					15-20 %
	240-795-3					
	Eye Dam. 1, STOT SE 3	3; H318 H33	35 EUH031			
55-55-0	bis(4-hydroxy-N-methylanilinium) sulphate					< 2 %
	200-237-1		650-031-00-4			
	Acute Tox. 4, Skin Sens. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H302 H317 H373 H400 H410					

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.

according to Regulation (EC) No 1907/2006

### LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 C; 3/3

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#### After inhalation

Move to fresh air.

#### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.

If skin irritation persists, call a physician.

#### 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, sensitising effects

# 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.

### 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

Sweep up or vacuum up spillage and collect in suitable container for disposal.

#### 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.

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

### Requirements for storage rooms and vessels

Keep tightly closed in a dry, cool and well-ventilated place.

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

according to Regulation (EC) No 1907/2006

### LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 C; 3/3

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Reagent for analysis

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

#### 8.1. Control parameters

#### 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 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

# 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: stinging

pH-Value (at 20 °C):

# Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

Pour point:

Inot applicable

not applicable

No data available

**Flammability** 

Solid: not applicable
Gas: not applicable

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 C; 3/3

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**Explosive properties** 

not applicable

Lower explosion limits:

Upper explosion limits:

Ignition temperature:

not applicable

not applicable

**Auto-ignition temperature** 

Solid: not applicable
Gas: not applicable
Decomposition temperature: no data available

**Oxidizing properties** 

not applicable

Vapour pressure:

Vapour pressure:

Density (at 20 °C):

Bulk density:

Water solubility:

(at 20 °C)

completely soluble

(at 20 °C)

Solubility in other solvents

no data available

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

9.2. Other information

Solid content: not applicable

no data available

### **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

Contact with acids liberates toxic gas.

# 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

### 10.5. Incompatible materials

Acids

### 10.6. Hazardous decomposition products

Contact with strong acids liberates sulphur dioxide.

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 C; 3/3

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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.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
16731-55-8	Potassium disulfite				
		LD50 2300 mg/kg	rat		
55-55-0	bis(4-hydroxy-N-methylanilinium) sulphate				
		ATE 500 mg/kg			

#### Irritation and corrosivity

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

### Sensitising effects

May cause sensitisation by skin contact.

# Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

#### Aspiration hazard

No aspiration toxicity classification

# Specific effects in experiment on an animal

No data is available on the product itself.

#### **Further information**

Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

May cause long-term adverse effects in the aquatic environment.

Do not flush into surface water or sanitary sewer system.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
16731-55-8	Potassium disulfite					
	Acute fish toxicity	LC50 460- 1000 mg/l	96 h	Danio rerio		

# 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

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 C; 3/3

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### 12.6. Other adverse effects

No known effect.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

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

### List of Wastes Code - contaminated packaging

160500

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

# Land transport (ADR/RID)

**14.1. UN number:** UN 3316

14.2. UN proper shipping name: CHEMICAL KIT

14.3. Transport hazard class(es): 9
14.4. Packing group: ||

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 (inland waterways transport)

Not tested

# Marine transport (IMDG)

**14.1. UN number:** UN 3316

14.2. UN proper shipping name: CHEMICAL KIT

14.3. Transport hazard class(es):914.4. Packing group:IIHazard label:9



according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 C; 3/3

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Marine pollutant:

Special Provisions: 251, 340
Limited quantity: See SP251
Excepted quantity: SP340
EmS: F-A, S-P

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:UN 331614.2. UN proper shipping name:CHEMICAL KIT

14.3. Transport hazard class(es): 9
14.4. Packing group: ||

14.4. Packing group:

Hazard label:

9



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A44 A163

1 kg

Y960

Excepted quantity:

E0

IATA-packing instructions - Passenger:960IATA-max. quantity - Passenger:10 kgIATA-packing instructions - Cargo:960IATA-max. quantity - Cargo:10 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: bis(4-hydroxy-N-methylanilinium) sulphate

# 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): 2 - clearly 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 Date 19.09.2019

Safety datasheet sections which have been updated: 8

Revision Date 27.03.2019

Safety datasheet sections which have been updated: 2,15, 16

according to Regulation (EC) No 1907/2006

# LCW 028 Kieselsäure/ Silicic Acid/ Silice, LCW 028 C; 3/3

Revision date: 19.09.2019 Product code: LCW028-3 Page 9 of 9

Revision Date 25.04.2017

Safety datasheet sections which have been updated: 7, 9, 14

Revision Date 15.10.2014

Safety datasheet sections which have been updated: 2.2

Revision: 12.06.2014;

Safety datasheet sections which have been updated: 2, 4, 6, 8-12, 14 This data sheet contains changes from the previous version in section(s): 9

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

Classification	Classification procedure
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.

# **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.)