

according to Regulation (EU) No. 1907/2006

### LCK 314 CSB/COD/DCO

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# 1. Identification of the substance/preparation and of the company/undertaking

## Identification of the substance or preparation

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# Use of the substance/preparation

Water analysis

## Company/undertaking identification

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## 2. Hazards identification

### Classification

Indications of danger: Toxic, Corrosive

R-phrases:

Toxic by inhalation, in contact with skin and if swallowed.

Danger of cumulative effects. Causes severe burns.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3. Composition/information on ingredients

Chemical characterization ( Mixture )

# **Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
231-639-5	7664-93-9	sulphuric acid %	90 %	C R35
231-791-2	7732-18-5	Water	>8 %	
231-992-5	7783-35-9	Mercury(II) sulfate	<1,7 %	T+, N R26/27/28-33-50-53
233-653-7	10294-26-5	Silver sulfate	<0,5 %	Xi R41
231-906-6	7778-50-9	potassium dichromate	<0,1 %	O, T, T, T, T+, T, Xn, C, N R8-45-46-60-61-26-25-48/23-21-34- 42/43-50-53

Full text of each relevant R phrase can be found in heading 16.



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#### 4. 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.

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

#### After contact with skin

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

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Show this safety data sheet to the doctor in attendance.

# After contact with eyes

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

#### Advice to doctor

Treat symptomatically.

## 5. Fire-fighting measures

### Suitable extinguishing media

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

# Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Fire may liberate hazardous vapours. The following may develop in event of fire: sulfur oxides, mercury vapors.

### Special protective equipment for fire-fighters

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.

#### 6. Accidental release measures

## **Personal precautions**

Use personal protective equipment.

## **Environmental precautions**

Do not flush into surface water or sanitary sewer system.

## Methods for cleaning up/taking up

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

## **Additional information**

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

## 7. Handling and storage

# Handling



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#### Advice on safe handling

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

#### Storage

### Requirements for storage rooms and vessels

Keep tightly closed in a dry, cool and well-ventilated place. Protect against light. Accessible only for authorized persons.

## 8. Exposure controls/personal protection

## **Exposure limit values**

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

CAS-No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
7783-35-9	Mercury(II) sulfate		0,1		TWA (8 h)	MAK
					STEL (15 min)	MAK

## **Exposure controls**

## 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.

#### Respiratory protection

Breathing apparatus only if aerosol or dust is formed.

### Hand protection

Use barrier skin cream.

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

### Eye protection

Safety glasses with side-shields

## Skin protection

Remove and wash contaminated clothing before re-use.

# 9. Physical and chemical properties

# **General information**

Physical state: liquid

Colour: yellow-orange Odour: odourless

## Important health, safety and environmental information

Test method

pH-Value (at 20 °C): < 1

Changes in the physical state

Boiling point: 300 °C Flash point: not applicable

**Flammability** 

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



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Upper explosion limits:not applicableDensity (at 20 °C):1,89 g/cm³Water solubility:completely soluble

(at 20 °C)

Other information

Ignition temperature: not applicable

no data available

## 10. Stability and reactivity

#### Conditions to avoid

To avoid thermal decomposition, do not overheat. Above 300 °C, hazardous fumes may be released.

#### Materials to avoid

organic materials, bases, alkali metals, metals, ammonia, reducing agents, nitric acid.

Reacts violently with water.

# **Hazardous decomposition products**

Sulphur trioxide chromium oxides

### **Additional information**

very reactive

## 11. Toxicological information

## **Acute toxicity**

No data is available on the product itself. Information given is based on data on the components and the toxicology of similar products.

## Corrosive and irritant effects

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

### Sensitising effects

May cause sensitization by inhalation and skin contact.

## 12. Ecological information

### **Ecotoxicity**

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

Do not flush into surface water or sanitary sewer system.

## 13. Disposal considerations

## Advice on disposal

Our local agencies will accept used cuvettes to ensure their proper disposal.

In accordance with local and national regulations.

# Waste disposal number of waste from residues/unused products

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

 $chemicals; \ laboratory\ chemicals,\ consisting\ of\ or\ containing\ dangerous\ substances,\ including$ 

mixtures of laboratory chemicals Classified as hazardous waste.

# Waste disposal number of used product

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

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including

mixtures of laboratory chemicals Classified as hazardous waste.



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## 14. Transport information

### Land transport (ADR/RID)

UN number: 3316 ADR/RID class: 9

Warning plate

ADR/RID packing group:

Description of the goods Chemical kit

## **Inland waterways transport**

### Other applicable information (inland waterways transport)

Not tested

# Marine transport

UN number: 3316
IMDG code: 9
Marine pollutant: -IMDG packing group: II

EmS: F-A, S-P

**Description of the goods** 

Chemical kit

### Air transport

UN/ID number: 3316
ICAO/IATA-DGR: 9
ICAO packing group: II

**Description of the goods** 

Chemical kit

# 15. Regulatory information

## Labelling

Danger symbols: T - Toxic; C - Corrosive





T - Toxic C - Corrosive

# Hazardous component(s) to be indicated on label

sulphuric acid ... % Mercury(II) sulfate

R phrases

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

33 Danger of cumulative effects.

35 Causes severe burns.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where



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possible).

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

### Additional advice on labelling

Classification according to European directive on classification of hazardous preparations 1999/45/EC.

### **National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment

restrictions for child bearing mothers and nursing.

Water contaminating class (D): 2 - water contaminating

## 16. Other information

## Full text of R-phrases referred to under sections 2 and 3

08 21 23/24/25	Contact with combustible material may cause fire.  Harmful in contact with skin.  Toxic by inhalation, in contact with skin and if swallowed.
25	Toxic if swallowed.
26	Very toxic by inhalation.
26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.
33	Danger of cumulative effects.
34	Causes burns.
35	Causes severe burns.
41	Risk of serious damage to eyes.
42/43	May cause sensitization by inhalation and skin contact.
45	May cause cancer.
46	May cause heritable genetic damage.
48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
50	Very toxic to aquatic organisms.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.
60	May impair fertility.
61	May cause harm to the unborn child.

# **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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