

Safety Data Sheet

according to 2001/58/EC

LCK 329 Kupfer/Copper/Cuivre; 1/1

Print date : 20.04.2007

Product code : LCK329

Page 1 of 5

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

Identification of the substance or preparation

LCK 329 Kupfer/Copper/Cuivre; 1/1

Use of the substance/preparation

Water analysis

Company/undertaking identification

Company name : HACH LANGE GmbH
Street : Willstätterstr. 11
Place : D-40549 Düsseldorf

e-mail : info@hach-lange.de
Internet : www.hach-lange.com

Inquiry office : HACH LANGE Ltd.
Pacific Way
Salford Manchester M50 1DL - United Kingdom
Tel. +44 (0) 161 872 1487
e-Mail: info@hach-lange.co.uk

Telephone : +49(0)2115288-0
Telefax : +49(0)2115288-143

HACH LANGE Ltd.
Unit 1, Chestnut Road Western Industrial Estate
Dublin 12 - Ireland
Tel. +353 (0)1 4602522
e-Mail: info@hach-lange.ie

2. Composition/information on ingredients

Chemical characterization (preparation)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
200-675-3	6132-04-3	tri-Sodium citrate dihydrate	30,0-40,0 %	Xi R36
200-066-2	50-81-7	Ascorbic acid	<30 %	
201-069-1	5949-29-1	Citric acid monohydrate	<5 %	
258-111-7	52698-84-7	Bathocuproinedisulfonic acid disodium salt	<1 %	

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

3. Hazards identification

Classification

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

The product does not need to be labelled in accordance with EC directives or respective national laws.

4. First aid measures

General information

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

After inhalation

Safety Data Sheet

according to 2001/58/EC

LCK 329 Kupfer/Copper/Cuivre; 1/1

Print date : 20.04.2007

Product code : LCK329

Page 2 of 5

Move to fresh air.
If symptoms persist, call a physician.

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

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

After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

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.

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

Fire may liberate hazardous vapours.

Special protective equipment for fire-fighters

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

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

Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling

Advice on safe handling

Avoid contact with skin and eyes.

Storage

Requirements for storage rooms and vessels

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

Further information on storage conditions

Keep locked up or in an area accessible only to qualified or authorised persons.

8. Exposure controls/personal protection

Exposure limit values

Safety Data Sheet

according to 2001/58/EC

LCK 329 Kupfer/Copper/Cuivre; 1/1

Print date : 20.04.2007

Product code : LCK329

Page 3 of 5

Exposure controls

Occupational exposure controls

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

Protective and hygiene measures

Wash hands before breaks and at the end of workday.

Respiratory protection

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Hand protection

Use barrier skin cream.

The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye protection

Safety glasses with side-shields

Skin protection

Avoid contact with skin, eyes and clothing.

9. Physical and chemical properties

General information

Physical state : solid
Colour : white
Odour : odourless

Important health, safety and environmental information

Test method

Changes in the physical state

Flash point : not applicable

Explosive properties

not applicable

soluble

10. Stability and reactivity

Additional information

Stable under recommended storage conditions.

11. Toxicological information

Acute toxicity

No data is available on the product itself.

12. Ecological information

Ecotoxicity

No data is available on the product itself.

13. Disposal considerations

Safety Data Sheet

according to 2001/58/EC

LCK 329 Kupfer/Copper/Cuivre; 1/1

Print date : 20.04.2007

Product code : LCK329

Page 4 of 5

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.

Waste disposal number of contaminated packaging

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.

Contaminated packaging

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

14. Transport information

Land transport (ADR/RID)

Remarks (land transport)

Not subject to transport regulations.

Inland waterways transport

Remarks (inland waterways transport)

Not tested

Marine transport

Remarks (marine transport)

Not subject to transport regulations.

Air transport

Remarks (air transport)

Not subject to transport regulations.

15. Regulatory information

Labelling

Labelling according to EC-guidelines : Classification according to European directive on classification of hazardous preparations 1999/45/EC.
The product does not need to be labelled in accordance with EC directives or respective national laws.

National regulations

Water contaminating class : 2 - water contaminating

16. Other information

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

36 Irritating to eyes.

Other data

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.

Safety Data Sheet

according to 2001/58/EC

LCK 329 Kupfer/Copper/Cuivre; 1/1

Print date : 20.04.2007

Product code : LCK329

Page 5 of 5

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