

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/Iron/Fer, Sample cuvette; 1/2

Revision date: 19.08.2021

Product code: LCK320-1

Page 1 of 9

Creation date: 19.12.2005

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

LCK 320 Eisen/Iron/Fer, Sample cuvette; 1/2

UFI: 9SAE-EF4J-G80S-DYX5

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 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:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

Toxic to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Citric acid, 1,10-Phenanthroline chloride monohydrate

Signal word: Warning

Safety Data Sheet

according to Regulation (EC) No 1907/2006

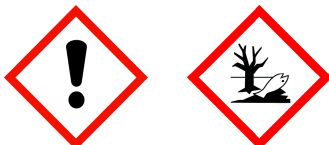
LCK 320 Eisen/iron/Fer, Sample cuvette; 1/2

Revision date: 19.08.2021

Product code: LCK320-1

Page 2 of 9

Creation date: 19.12.2005

Pictograms:

Hazard statements

- | | |
|------|--|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

- | | |
|-----------|---|
| P264 | Wash hands thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P391 | Collect spillage. |

Additional advice on labelling

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

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	CLP Classification	
77-92-9	Citric acid	< 45 %
	201-069-1	01-2119457026-42
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	
9003-39-8	Polyvidon 25	> 35 %
	618-363-4	
69-65-8	D(-)-Mannitol	< 20 %
	200-711-8	
18851-33-7	1,10-Phenanthroline chloride monohydrate	< 2 %
	223-325-1	
	Acute Tox. 3, Aquatic Acute 1, Aquatic Chronic 1; H301 H400 H410	

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

Specific concentration limits and M-factors

CAS No	EC No	Chemical name	Quantity
		Specific concentration limits and M-factors	
18851-33-7	223-325-1	1,10-Phenanthroline chloride monohydrate	< 2 %
		M akut; H400: M=10 M chron.; H410: M=10	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/iron/Fer, Sample cuvette; 1/2

Revision date: 19.08.2021

Product code: LCK320-1

Page 3 of 9

Creation date: 19.12.2005

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.

After ingestion

Clean mouth with water and drink afterwards plenty of water.

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

Severe skin irritation

Severe eye irritation

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. For personal protection see section 8.

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/Iron/Fer, Sample cuvette; 1/2

Revision date: 19.08.2021

Product code: LCK320-1

Page 4 of 9

Creation date: 19.12.2005

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, cool place.

7.3. Specific end use(s)

Reagent for analysis

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PNEC values

CAS No	Substance	Value
Environmental compartment		
77-92-9	Citric acid	
Freshwater		0,44 mg/l
Marine water		0,044 mg/l
Freshwater sediment		34,6 mg/kg
Marine sediment		3,46 mg/kg
Soil		33,1 mg/kg

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.

Eye/face protection

Safety glasses with side-shields

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 0,20 mm, Breakthrough time: > 30 min

Skin protection

Remove and wash contaminated clothing before re-use.

Respiratory protection

Avoid breathing dust or vapour.

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid (lyophilised)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/Iron/Fer, Sample cuvette; 1/2

Revision date: 19.08.2021

Product code: LCK320-1

Page 5 of 9

Creation date: 19.12.2005

Colour: white
Odour: odourless
pH-Value: no data available

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
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: no data available

Oxidizing properties

not applicable

Vapour pressure: not applicable

Density: no data available

Bulk density: no data available

Water solubility: completely soluble
(at 20 °C)**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

SECTION 10: Stability and reactivity**10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/iron/Fer, Sample cuvette; 1/2

Revision date: 19.08.2021

Product code: LCK320-1

Page 6 of 9

Creation date: 19.12.2005

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

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Oxidizing agents

Reducing agents

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, 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
77-92-9	Citric acid				
	oral	LD50 3000 mg/kg	rat	IUCLID	
	dermal	LD50 >2000 mg/kg	rat	IUCLID	
69-65-8	D(-)-Mannitol				
	oral	LD50 135000 mg/kg	Ratte		
18851-33-7	1,10-Phenanthroline chloride monohydrate				
	oral	LD50 132 mg/kg	rat	NIOSH	

Irritation and corrosivity

Severe eye irritation. Severe skin irritation

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

D(-)-Mannitol: LD50/oral/rat = 13500 mg/kg

Citric acid: LD50/oral/rat = 3000 mg/kg

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/iron/Fer, Sample cuvette; 1/2

Revision date: 19.08.2021

Product code: LCK320-1

Page 7 of 9

Creation date: 19.12.2005

Further information

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.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
77-92-9	Citric acid					
	Acute fish toxicity	LC50 mg/l	440-760	96 h	Leuciscus idus (Golden orfe)	
	Acute crustacea toxicity	EC50	160 mg/l	48 h	Crustacea	
18851-33-7	1,10-Phenanthroline chloride monohydrate					
	Acute fish toxicity	LC50 mg/l	0,091	96 h		
	Acute crustacea toxicity	EC50 mg/l	0,072	48 h		

12.2. Persistence and degradability

No data is available on the product itself.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
77-92-9	Citric acid			
	OECD Test Guideline 302	98 %	2	IUCLID
	Biochemical Oxygen Demand (BOD)	526 mg/g	5	IUCLID

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

Contaminated packaging

Dispose of as unused product.

The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

SECTION 14: Transport information
Land transport (ADR/RID)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/iron/Fer, Sample cuvette; 1/2

Revision date: 19.08.2021

Product code: LCK320-1

Page 8 of 9

Creation date: 19.12.2005

Other applicable information (land transport)

Not subject to transport regulations.

Inland waterways transport (ADN)**Other applicable information (inland waterways transport)**

Not tested

Marine transport (IMDG)**Other applicable information (marine transport)**

Not subject to transport regulations.

Air transport (ICAO-TI/IATA-DGR)**Other applicable information (air transport)**

Not subject to transport regulations.

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 applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water hazard class (D): 3 - strongly hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

Revision: 19.08.2021

Safety datasheet sections which have been updated: 5, 6, 7

Revision: 04.03.2020

Safety datasheet sections which have been updated: 2

Revision: 30.01.2020

Safety datasheet sections which have been updated: 3, 8

Revision: 19.07.2018

Safety datasheet sections which have been updated: 10, 11, 15, 16

Revision: 20.05.2015

Safety datasheet sections which have been updated: 2, 4, 11

Revision: 9.04.2014

Safety datasheet sections which have been updated: 2, 4, 6, 8, 10, 11, 12

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/Iron/Fer, Sample cuvette; 1/2

Revision date: 19.08.2021

Product code: LCK320-1

Page 9 of 9

Creation date: 19.12.2005

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic 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.)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/Iron/Fer, DosiCapZip A; 2/2

Revision date: 19.08.2021

Product code: LCK320-2

Page 1 of 8

Creation date: 20.12.2005

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

LCK 320 Eisen/Iron/Fer, DosiCapZip A; 2/2

Substance name: Ascorbic acid
CAS No: 50-81-7
EC No: 200-066-2
UFI: WU26-AFRG-1806-9K64

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 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:
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Reproductive toxicity: Repr. 2
Specific target organ toxicity - single exposure: STOT SE 3
Hazard Statements:
Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging fertility or the unborn child.
May cause respiratory irritation.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Sodium metatobate

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/Iron/Fer, DosiCapZip A; 2/2

Revision date: 19.08.2021

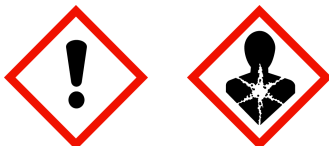
Product code: LCK320-2

Page 2 of 8

Creation date: 20.12.2005

Signal word: Warning

Pictograms:



Hazard statements

- H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H361 Suspected of damaging fertility or the unborn child.

Precautionary statements

- P201 Obtain special instructions before use.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P312 Call a POISON CENTER/doctor if you feel unwell.

Additional advice on labelling

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	CLP Classification	
50-81-7	Ascorbic acid	50-60 %
	200-066-2	
10555-76-7	Sodium metaborate, tetrahydrate	20-30 %
	231-891-6	
	01-2119516444-44	
	Repr. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H361 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.

After contact with skin

Wash off immediately with plenty of water.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/Iron/Fer, DosiCapZip A; 2/2

Revision date: 19.08.2021

Product code: LCK320-2

Page 3 of 8

Creation date: 20.12.2005

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

irritant 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. 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. For personal protection see section 8.

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, cool place.

7.3. Specific end use(s)

Reagent for analysis

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/Iron/Fer, DosiCapZip A; 2/2

Revision date: 19.08.2021

Product code: LCK320-2

Page 4 of 8

Creation date: 20.12.2005

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.

Eye/face protection

Safety glasses with side-shields

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 0,20 mm, Breakthrough time: > 30 min

Skin protection

Remove and wash contaminated clothing before re-use.

Respiratory protection

Avoid breathing dust or vapour.

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid (lyophilised)

Colour: white

Odour: odourless

pH-Value (at 20 °C): 4,4

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

Flash point: not applicable

Sustaining combustion: No data available

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/Iron/Fer, DosiCapZip A; 2/2

Revision date: 19.08.2021

Product code: LCK320-2

Page 5 of 8

Creation date: 20.12.2005

Solid: not applicable

Gas: not applicable

Decomposition temperature: no data available

Oxidizing properties

not applicable

Vapour pressure: not applicable

Density (at 20 °C): 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

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

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.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No toxicology information is available.

Acute toxicity

Based on available data, the classification criteria are not met.

No data is available on the product itself.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/Iron/Fer, DosiCapZip A; 2/2

Revision date: 19.08.2021

Product code: LCK320-2

Page 6 of 8

Creation date: 20.12.2005

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
50-81-7	Ascorbic acid				
	oral	LD50 mg/kg	11900	rat	RTECS

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility or the unborn child. (Sodium metaborate, tetrahydrate)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (Sodium metaborate, tetrahydrate)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No toxicology information is available.

Further information

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

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/Iron/Fer, DosiCapZip A; 2/2

Revision date: 19.08.2021

Product code: LCK320-2

Page 7 of 8

Creation date: 20.12.2005

Contaminated packaging

Dispose of as unused product.

The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not subject to transport regulations.

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

Not tested

Marine transport (IMDG)

Other applicable information (marine transport)

Not subject to transport regulations.

Air transport (ICAO-TI/IATA-DGR)

Other applicable information (air transport)

Not subject to transport regulations.

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 applicable

SECTION 15: Regulatory information

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

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

Revision: 19.08.2021

Safety datasheet sections which have been updated: 2-7, 9, 11, 15, 16

Revision: 04.03.2020

Safety datasheet sections which have been updated: 11

Revision: 30.01.2020

Safety datasheet sections which have been updated: 9

Revision: 19.07.2018

Safety datasheet sections which have been updated: 15

Revision: 20.05.2015

Safety datasheet sections which have been updated: 2

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LCK 320 Eisen/Iron/Fer, DosiCapZip A; 2/2

Revision date: 19.08.2021

Product code: LCK320-2

Page 8 of 8

Creation date: 20.12.2005

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Repr. 2; H361	Calculation method
STOT SE 3; H335	Calculation method

Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.

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.)