

Safety Data Sheet

according to 2001/58/EC

LCK 337 Nickel, Sample cuvette; 1/2

Print date : 20.04.2007

Product code : LCK337-1

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

Identification of the substance or preparation

LCK 337 Nickel, Sample cuvette; 1/2

Use of the substance/preparation

Water analysis

Company/undertaking identification

Company name : HACH LANGE GmbH
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Place : D-40549 Düsseldorf

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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
231-786-5	7727-54-0	ammonium persulphate, diammonium peroxodisulphate	< 70 %	O, Xn, Xi R8-22-36/37/38-42/43
201-069-1	77-92-9	Citric acid	> 35 %	Xi R36

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

3. Hazards identification

Classification

Indications of danger : Harmful, Irritant

R-phrases :

Harmful if swallowed.

Irritating to eyes, respiratory system and skin.

May cause sensitization by inhalation and skin contact.

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

Move to fresh air.

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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.

After ingestion

Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.

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.

Extinguishing media which must not be used for safety reasons

high volume water jet

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

The following may develop in event of fire: sulfur oxides., Carbon monoxide, carbon dioxide (CO₂).

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

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

7. Handling and storage

Handling

Advice on safe handling

Avoid contact with skin and eyes.
Use only in well-ventilated areas. Do not breathe vapours/dust.

Storage

Requirements for storage rooms and vessels

Keep at temperatures between 15 and 25°C.
Keep containers dry and tightly closed to avoid moisture absorption and contamination.

Further information on storage conditions

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

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8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
7727-54-0	Diammonium peroxodisulphate (measured as [S2O8]) (OLD)	-	1		TWA (8 h)	OES
		-	-		STEL (15 min)	OES

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.

Hand protection

Use barrier skin cream.

Chemical resistant protective gloves

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

Changes in the physical state

Melting point :

60 °C Decomposition temperature

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

completely soluble

Test method

10. Stability and reactivity

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Conditions to avoid

Keep away from combustible material.
To avoid thermal decomposition, do not overheat.

Materials to avoid

strong bases, oxidizing agents

Hazardous decomposition products

carbon dioxide (CO₂), Sulphur oxides, Ammonia

Additional information

Stable under recommended storage conditions.

11. Toxicological information

Acute toxicity

No data is available on the product itself.

Corrosive and irritant effects

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

Sensitising effects

May cause sensitisation by skin contact.

12. Ecological information

Ecotoxicity

No data is available on the product itself.

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.

14. Transport information

Land transport (ADR/RID)

ADR/RID class :	9
Warning plate	
UN number :	3316
ADR/RID packing group :	II

Description of the goods

Chemical kit

Inland waterways transport

Remarks (inland waterways transport)

Not tested

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Marine transport

IMDG code : 9
UN number : 3316
Marine pollutant : --
EmS : F-A, S-P
IMDG packing group : II

Description of the goods

Chemical kit

Air transport

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

Description of the goods

Chemical kit

Further Information

These transport data apply to the entire pack

15. Regulatory information

Labelling

Danger symbols : Xn - Harmful



Xn - Harmful

Labelling according to EC-guidelines : Classification according to European directive on classification of hazardous preparations 1999/45/EC.

Hazardous component(s) to be indicated on label

ammonium persulphate, diammonium peroxodisulphate

R phrases

22 Harmful if swallowed.
36/37/38 Irritating to eyes, respiratory system and skin.
42/43 May cause sensitization by inhalation and skin contact.

S phrases

24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39 Wear suitable gloves and eye/face protection.

National regulations

Employment restrictions : Observe employment restrictions for young people.
Water contaminating class : 1 - slightly water contaminating

16. Other information

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

08 Contact with combustible material may cause fire.
22 Harmful if swallowed.
36 Irritating to eyes.
36/37/38 Irritating to eyes, respiratory system and skin.
42/43 May cause sensitization by inhalation and skin contact.

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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.

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LCK 337 Nickel, LCK 337 A; 2/2

Print date : 20.04.2007

Product code : LCK337-2

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

Identification of the substance or preparation

LCK 337 Nickel, LCK 337 A; 2/2

Use of the substance/preparation

Water analysis

Company/undertaking identification

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

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Internet : www.hach-lange.com

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HACH LANGE Ltd.
Unit 1, Chestnut Road Western Industrial Estate
Dublin 12 - Ireland
Tel. +353 (0)1 4602522
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2. Composition/information on ingredients

Chemical characterization (preparation)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
213-791-2	7732-18-5	Water	> 80%	
215-185-5	1310-73-2	caustic soda, sodium hydroxide	< 20%	C R35

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

3. Hazards identification

Classification

Indications of danger : Corrosive
R-phrases :
Causes severe burns.

4. First aid measures

General information

Take off all contaminated clothing immediately.
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.

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After contact with eyes

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

After ingestion

Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.

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 arriving from substance or preparation itself, combustion products, resulting gases

Fire may liberate hazardous vapours.

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

Sweep up or vacuum up spillage and collect in suitable container for disposal.
After cleaning, flush away traces with water.

7. Handling and storage

Handling

Advice on safe handling

Avoid contact with skin and eyes.
Use only in well-ventilated areas. Do not breathe vapours/dust.

Storage

Requirements for storage rooms and vessels

Keep containers dry and tightly closed to avoid moisture absorption and contamination.

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

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Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
1310-73-2	Sodium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

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.

Hand protection

Use barrier skin cream.

Chemical resistant protective gloves

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 : liquid
 Colour : colourless
 Odour : odourless

Important health, safety and environmental information

Changes in the physical state

Melting point : - 17 °C
 Boiling point : 145 °C
 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
 1,145 g/cm³

Test method

>12

completely soluble

10. Stability and reactivity

Conditions to avoid

To avoid thermal decomposition, do not overheat.

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Materials to avoid

acids

Hazardous decomposition products

Gives off hydrogen by reaction with metals.

Additional information

Stable under recommended storage conditions.

11. Toxicological information

Acute toxicity

No data is available on the product itself.

Corrosive and irritant effects

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

12. Ecological information

Ecotoxicity

No data is available on the product itself.

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.

14. Transport information

Land transport (ADR/RID)

ADR/RID class : 9
Warning plate
UN number : 3316
ADR/RID packing group : II

Description of the goods

Chemical kit

Inland waterways transport

Remarks (inland waterways transport)

Not tested

Marine transport

IMDG code : 9
UN number : 3316
Marine pollutant : --
EmS : F-A, S-P

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IMDG packing group : II

Description of the goods

Chemical kit

Air transport

ICAO/IATA-DGR : 9

UN/ID number : 3316

ICAO packing group : II

Description of the goods

Chemical kit

Further Information

These transport data apply to the entire pack

15. Regulatory information

Labelling

Danger symbols : C - Corrosive



C - Corrosive

Labelling according to EC-guidelines : Classification according to European directive on classification of hazardous preparations 1999/45/EC.

Hazardous component(s) to be indicated on label

caustic soda, sodium hydroxide

R phrases

35 Causes severe burns.

S phrases

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

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

37/39 Wear suitable gloves and eye/face protection.

National regulations

Employment restrictions : Observe employment restrictions for young people.; Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class : 1 - slightly water contaminating

16. Other information

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

35 Causes severe burns.

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.