

according to 2001/58/EC

# LCK 537 Nickel, Sample cuvette; 1/3

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

## Identification of the substance or preparation

LCK 537 Nickel, Sample cuvette; 1/3

# Use of the substance/preparation

Water analysis

# Company/undertaking identification

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

Telephone : +49(0)2115288-0
e-mail : info@hach-lange.de Telefax : +49(0)2115288-143

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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
231-892-1	7775-27-1	Sodium peroxidisulfate	< 50 %	O, Xn R08-22-36/37/38-42/43
231-984-1	7783-20-2	Ammonium sulfate	15-20 %	
201-069-1	77-92-9	Citric acid	> 20 %	Xi R36

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

## 3. Hazards identification

#### Classification

Indications of danger: Harmful

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.

# 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

# <u>Handling</u>

# 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.

## 8. Exposure controls/personal protection

# **Exposure limit values**



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#### **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

Test method

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

# 10. Stability and reactivity

# 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.



according to 2001/58/EC

# LCK 537 Nickel, Sample cuvette; 1/3

# 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

# **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





according to 2001/58/EC

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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

Sodium peroxidisulfate

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.; 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

O8 Contact with combustible material may cause fire.

Harmful if swallowed.

Irritating to eyes.

36/37/38 Irritating to eyes, respiratory system and skin.

42/43 May cause sensitization by inhalation and skin contact.

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.



according to 2001/58/EC

# LCK 537 Nickel, LCK 537 A; 2/3

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

## Identification of the substance or preparation

LCK 537 Nickel, LCK 537 A; 2/3

# 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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Telephone : +49(0)2115288-143

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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
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.





according to 2001/58/EC

# LCK 537 Nickel, LCK 537 A; 2/3

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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**



according to 2001/58/EC

# LCK 537 Nickel, LCK 537 A; 2/3

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# **Exposure limits (EH40)**

CAS No.	Substance	ml/m³	mg/m³	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

Test method

>12

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

completely soluble

# 10. Stability and reactivity

#### Conditions to avoid

To avoid thermal decomposition, do not overheat.



according to 2001/58/EC

# LCK 537 Nickel, LCK 537 A; 2/3

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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)

UN number:

ADR/RID class: 9

Warning plate

3316 II

ADR/RID packing group : **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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LCK 537 Nickel, LCK 537 A; 2/3

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IMDG packing group:

**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

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

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.



according to 2001/58/EC

# LCK 537 Nickel, LCK 537 B; 3/3

Print date : 20.04.2007 Product code : LCK537-3 Page 1 of 5

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

## Identification of the substance or preparation

LCK 537 Nickel, LCK 537 B; 3/3

# 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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e-mail : info@hach-lange.de Telefax : +49(0)2115288-143

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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 (substance)

## **Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
231-786-5	7727-54-0	ammonium persulphate, diammonium peroxodisulphate	100 %	O, Xn, Xi R8-22-36/37/38-42/43

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

Index No. 016-060-00-6

# 3. Hazards identification

# Classification

Indications of danger: Oxidizing, Harmful, Irritant

R-phrases:

Contact with combustible material may cause fire.

Harmful if swallowed.

Irritating to eyes, respiratory system and skin.

May cause sensitization by inhalation and skin contact.

Classification according to European directive on classification of hazardous preparations

1999/45/EC.

# 4. First aid measures

## **General information**



according to 2001/58/EC

# LCK 537 Nickel, LCK 537 B; 3/3

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Take off contaminated clothing and shoes immediately.

Show this safety data sheet to the doctor in attendance.

#### After inhalation

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

carbon dioxide (CO2), foam

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 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.

Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist.

# **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

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

## **Storage**



according to 2001/58/EC

# LCK 537 Nickel, LCK 537 B; 3/3

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#### 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**

#### **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 : colourless
Odour : odourless

# Important health, safety and environmental information

Test method

3,2

# Changes in the physical state

Melting point: 120 °C
Flash point: not applicable
1,98 g/cm³
620 g/L

# 10. Stability and reactivity

## **Conditions to avoid**

Heat.

#### Materials to avoid

peroxides, iron, Alkalien, zinc, copper, Silber/Silver

# **Additional information**

Stable under recommended storage conditions.

# 11. Toxicological information



according to 2001/58/EC

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#### **Acute toxicity**

LD50/dermal/rat = 2000 mg/kg LD50/oral/rat = 495 mg/kg

# 12. Ecological information

# **Ecotoxicity**

LC50/48h/daphnia = 120mg/l

## 13. Disposal considerations

# Advice on disposal

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

# 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.

# 14. Transport information

# Land transport (ADR/RID)

ADR/RID class: 9

Warning plate

UN number : 3316
ADR/RID packing group : III

**Description of the goods** 

Chemical kit

## **Inland waterways transport**

# Remarks (inland waterways transport)

Not tested

# **Marine transport**

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

# **Description of the goods**

Chemical kit

#### Air transport





according to 2001/58/EC

LCK 537 Nickel, LCK 537 B; 3/3

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

**Description of the goods** 

Chemical kit

#### **Further Information**

These transport data apply to the entire pack

# 15. Regulatory information

#### Labelling

Danger symbols : O - Oxidizing; Xn - Harmful





O - Oxidizing Xn - Harmful

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.

# Hazardous component(s) to be indicated on label

ammonium persulphate, diammonium peroxodisulphate

R phrases

08 Contact with combustible material may cause fire.

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

Do not breathe dust.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.; 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

O8 Contact with combustible material may cause fire.

22 Harmful if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

42/43 May cause sensitization by inhalation and skin contact.

# 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.