20.09.2024	Kit Components	
Product code	Description	
CAY441-VxxAAE	CA71COD-B Reagent Set	
Components:		
71251118	Reagent COD1 (A+B)	
71251187	Reagent COD2 (B)	
71251190A	Reagent COD3 (A+B)	

Endress + Hauser 🔣

Date of issue: 20.09.2024 Version 8 (replaces version 7)

Revision: 20.09.2024

SECTION 1: Identification of the substance or mixture and of the supplier

1.1 Product identifier

Trade name: Reagent COD1 (A+B)

Article number: 71251118

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Endress+Hauser

Conducta GmbH+Co. KG

Dieselstraße 24 D-70839 Gerlingen

Further information obtainable from:

Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

1.4 Emergency telephone number: 0064 800 764 766

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



Skin corrosion Category 1A H314 Causes severe skin burns and eye damage.

Serious eye damage Category 1 H318 Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05

Signal word Danger

Hazard-determining components of labelling:

sulphuric acid

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor. P310

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

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in accordance with HSNO

Date of issue: 20.09.2024 Version 8 (replaces version 7) Revision: 20.09.2024

Trade name: Reagent COD1 (A+B)

(Contd. of page 1)

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/Information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Additional information: For the wording of the listed hazard phrases refer to section 16.

Dangerous components:

CAS: 7664-93-9 | sulphuric acid | \$\int \text{Skin corrosion Category 1A, H314} | 60-80% | EINECS: 231-639-5 |

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters *No further relevant information available.*

Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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in accordance with HSNO Date of issue: 20.09.2024

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Trade name: Reagent COD1 (A+B)

(Contd. of page 2)

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep container tightly sealed.

Storage class: 8 B

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

	Ingredients with limit values that require monitoring at the workplace:		
١	CAS: 7664-93-9 sulphuric acid		
	WES (New Zealand)	Long-term value: 0.1 mg/m³	
		confirmed carcinogen	
	IOELV (EU)	Long-term value: 0.05 mg/m³	

DNELs

CAS:	7664-93-9	sulphuric	acid
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•	
Inhalative DNEL short-ter	m 0.1 mg/m³ (worker) (local effects)
DNEL long-teri	n 0.05 mg/m³ (worker) (local effects)

PNECs

CAS: 7664-93-9 sulphuric acid

PNEC	8.8 mg/L	(Wastewater treatment plant)
------	----------	------------------------------

0.25 mg/L (sea water) PNEC 2.5 µg/L (fresh water)

PNEC 2 µg/kg (marine sediment)

2 μg/kg (freshwater sediment)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 4)

Version 8 (replaces version 7)

Date of issue: 20.09.2024 Revision: 20.09.2024

Trade name: Reagent COD1 (A+B)

(Contd. of page 3)

Hand protection



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Nitrile rubber, NBR

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection



Tightly sealed goggles

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state Fluid Colour: Colourless Odour: Odourless **Odour threshold:** Not determined. Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling

range Undetermined. Not applicable. **Flammability**

Lower and upper explosion limit

Lower: Not determined. Upper: Not determined. Flash point: Not applicable. **Decomposition temperature:** Not determined.

pH at 20 °C <1

Viscosity:

Kinematic viscosity Not determined. Dynamic: Not determined.

Solubility

Fully miscible. water: Partition coefficient n-octanol/water (log value) Not determined.

Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density at 20 °C: 1.521 g/cm³ Relative density Not determined. Vapour density Not determined. **Particle characteristics** Not applicable.

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in accordance with HSNO

Date of issue: 20.09.2024 Version 8 (replaces version 7) Revision: 20.09.2024

Trade name: Reagent COD1 (A+B)

(Contd. of page 4)

9.2 Other information

Appearance:

Form: Fluid

Important information on protection of health

and environment, and on safety.

Ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Not determined.

Void

Solvent content:

Water: 25.0 % Solids content: 0.0 %

Change in condition

Evaporation rate Not determined.

Information with regard to physical hazard

classes **Explosives** Flammable gases **Aerosols Oxidising gases**

Void Void Void Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void **Pyrophoric liquids** Void Pyrophoric solids Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable

gases in contact with water Void **Oxidising liquids** Void **Oxidising solids** Void Organic peroxides Void Corrosive to metals Void **Desensitised explosives** Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- **10.5** Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/irritation Causes serious eye damage.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

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Trade name: Reagent COD1 (A+B)

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

UN1830

UN1830 SULPHURIC ACID

SULPHURIC ACID

Sulphuric acid

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number

IMDG. IATA

14.2 UN proper shipping name

NZS

IMDG

IATA

14.3 Transport hazard class(es)

NZS



Class 8 (C1) Corrosive substances.

Label

IMDG, IATA



Class 8 Corrosive substances.

Label

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Trade name: Reagent COD1 (A+B)

(Contd. of page 6)

14.4 Packing group

NZS, IMDG, IATA

Not applicable. 14.5 Environmental hazards:

14.6 Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code): 80 **EMS Number:** F-A,S-B

Segregation groups (SGG1a) Strong acids

Stowage Category С

Stowage Code SW15 For metal drums, stowage category B. **Segregation Code** SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

Transport/Additional information:

NZS

Limited quantities (LQ) 1L Transport category 2 **Tunnel restriction code** Ε

IMDG

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation": UN 1830 SULPHURIC ACID, 8, II

SECTION 15: Regulatory information

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

New Zealand Inventory of Chemicals

All ingredients are listed.

HSNO Approval numbers

None of the ingredients is listed.

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05

Signal word Danger

Hazard-determining components of labelling:

sulphuric acid

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

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(Contd. of page 7)

P501

Dispose of contents/container in accordance with local/regional/national/international

regulations.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

16.1 Relevant phrases

H314 Causes severe skin burns and eye damage.

16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Skin corrosion Category 1A: Skin corrosion/irritation - Category 1A

Serious eye damage Category 1: Serious eye damage/eye irritation - Category 1

NZ -

^{*} Data compared to the previous version altered.

in accordance with HSNO

Endress + Hauser 🔣

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Revision: 20.09.2024

Date of issue: 20.09.2024 Version 15 (replaces version 14)

SECTION 1: Identification of the substance or mixture and of the supplier

1.1 Product identifier

Trade name: Reagent COD2 (B)

Article number: 71251187

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen

Further information obtainable from:

Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

1.4 Emergency telephone number: 0064 800 764 766

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



skull and crossbones

Acute inhalation toxicity Category 3

health hazard

Respiratory sensitisation Category 1

Germ cell mutagenicity Category 1

Carcinogenicity Category 1

Reproductive toxicity Category 1

Specific target organ toxicity - repeated exposure

Category 2

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H340 May cause genetic defects.

H350 May cause cancer.

H331 Toxic if inhaled.

H360 May damage fertility or the unborn child.

H373 May cause damage to the respiratory system through prolonged or repeated exposure.



Skin corrosion Category 1A

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.



environment

Serious eye damage Category 1

Hazardous to the aquatic environment acute Category H400 Very toxic to aquatic life.

Hazardous to the aquatic environment chronic Category 2

H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 2)

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Trade name: Reagent COD2 (B)

(Contd. of page 1)



Skin sensitisation Category 1

H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms









GHS06 GHS08 GHS05 GHS09

Signal word Danger

Hazard-determining components of labelling:

sulphuric acid

Potassium dichromate

Hazard statements

H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H373 May cause damage to the respiratory system through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/Information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

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Trade name: Reagent COD2 (B)

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	(conta	i. or page 2
Dangerous components:		
CAS: 7664-93-9	sulphuric acid	10-20%
EINECS: 231-639-5	Skin corrosion Category 1A, H314	
CAS: 7778-50-9 EINECS: 231-906-6	Potassium dichromate Oxidising solids Category 2, H272; Acute oral toxicity Category 3, H301; Acute inhalation toxicity Category 2, H330; Respiratory sensitisation Category 1, H334; Germ cell mutagenicity Category 1, H340; Carcinogenicity Category 1, H350; Reproductive toxicity Category 1, H360; Specific target organ toxicity - repeated exposure Category 1, H372; Skin corrosion Category 1B, H314; Hazardous to the aquatic environment acute Category 1, H400; Hazardous to the aquatic environment chronic Category 1, H410; Acute dermal toxicity Category	1-2.5%
	4, H312; Skin sensitisation Category 1, H317	
CAS: 10294-26-5 EINECS: 233-653-7	silver sulfate Serious eye damage Category 1, H318; Hazardous to the aquatic environment acute Category 1, H400 (M=1000); Hazardous to the aquatic environment chronic Category 1, H410 (M=100)	0.1-1%
SVHC		
CAS: 7778-50-9 Po	tassium dichromate	

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters *No further relevant information available.*

Protective equipment: Mount respiratory protective device.

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in accordance with HSNO Date of issue: 20.09.2024

Version 15 (replaces version 14) Revision: 20.09.2024

Trade name: Reagent COD2 (B)

(Contd. of page 3)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about fire - and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: *Not required.*Further information about storage conditions: *Keep container tightly sealed.*

Storage class: 6.1 B

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with lim	Ingredients with limit values that require monitoring at the workplace:		
CAS: 7664-93-9 sulp	CAS: 7664-93-9 sulphuric acid		
WES (New Zealand)	Long-term value: 0.1 mg/m³ confirmed carcinogen		
IOELV (EU)	Long-term value: 0.05 mg/m³		
CAS: 7778-50-9 Potassium dichromate			
WES (New Zealand)	Short-term value: 0.0005 mg/m³ Long-term value: 0.00002 mg/m³ bio,dermal sen., skin,confirmed carcinogen, as Cr		
BOELV (EU)	Long-term value: 0.005; 0.01*; 0.025** mg/m³ as Cr;*until 01/17/2025**processes generating fume		

DNELs

CAS: 7664-93-9 sulphuric acid

Inhalative DNEL short-term 0.1 mg/m³ (worker) (local effects)

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Trade name: Reagent COD2 (B)

(Contd. of page 4)

PNECs

CAS: 7664-93-9 sulphuric acid

PNEC | 8.8 mg/L (Wastewater treatment plant) | 0.25 mg/L (sea water) |
PNEC | 2.5 µg/L (fresh water) |
PNEC | 2 µg/kg (marine sediment) |
2 µg/kg (freshwater sediment) |
2 µg/kg (freshwater sediment) |
PNEC | 0.21 mg/L (Wastewater treatment plant) |
0 mg/L (fresh water) |
PNEC | 0.15 mg/kg (marine sediment) |
0 mg/kg (freshwater sediment) |
0 mg/kg (freshwater sediment) |
0.15 mg/kg (freshwater sediment) |
0.15 mg/kg (freshwater sediment) |

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

0.035 mg/kg (soil)

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Nitrile rubber, NBR

Natural rubber, NR

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

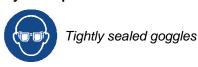
(Contd. on page 6)

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Trade name: Reagent COD2 (B)

(Contd. of page 5)

Eye/face protection



Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state Fluid

Colour: Light orange colour

Odour:OdourlessOdour threshold:Not determined.Melting point/freezing point:Undetermined.

Boiling point or initial boiling point and boiling

range 100 °C

Flammability Not applicable.

Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Decomposition temperature: Not determined.
pH Not determined.

Viscosity:

Kinematic viscosity

Dynamic:

Not determined.

Not determined.

Solubility

water: Fully miscible.

Partition coefficient n-octanol/water (log value) Not determined.

Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density at 20 °C:1.117 g/cm³Relative densityNot determined.Vapour densityNot determined.Particle characteristicsNot applicable.

9.2 Other information

Appearance:

Form: Fluid

Important information on protection of health

and environment, and on safety.

Ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Not determined.

Solvent content:

 Water:
 77.7 %

 Solids content:
 0.0 %

Change in condition

Evaporation rate Not determined.

Information with regard to physical hazard

classes

ExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoid

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in accordance with HSNO

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Trade name: Reagent COD2 (B)

(Contd. of page 6) Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void **Pyrophoric liquids** Void Pyrophoric solids Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void Oxidising liquids Void Oxidising solids Void Organic peroxides Void Corrosive to metals Void **Desensitised explosives** Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Toxic if inhaled.

LD/LC50 values relevant for classification:

CAS: 7778-50-9 Potassium dichromate

Oral LD50 190 mg/kg (mouse)

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

Reproductive toxicity May damage fertility or the unborn child.

STOT-repeated exposure

May cause damage to the respiratory system through prolonged or repeated exposure.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

- **12.2 Persistence and degradability** *No further relevant information available.*
- 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** *No further relevant information available.*
- 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

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Trade name: Reagent COD2 (B)

(Contd. of page 7)

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Remark:

Very toxic for fish Toxic for fish

Additional ecological information:

General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms Toxic for aquatic organisms

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

UN2922

UN2922 CORROSIVE LIQUID, TOXIC, N.O.S.

CORROSIVE LIQUID, TOXIC, N.O.S. (SULPHURIC

Corrosive liquid, toxic, n.o.s. (containing SULPHURIC

(SULPHURIC ACID, Potassium dichromate)

ACID. Potassium dichromate)

ACID, Potassium dichromate)

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number

IMDG, IATA

14.2 UN proper shipping name

NZS

IMDG

IATA

14.3 Transport hazard class(es)

NZS





Class 8 (CT1) Corrosive substances.

Label 8+6.1

IMDG





Class 8 Corrosive substances.

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8/6.1

Trade name: Reagent COD2 (B)

(Contd. of page 8)

Label **IATA**



8 Corrosive substances. Class

Label 8 (6.1)

14.4 Packing group

IINZS, IMDG, IATA

14.5 Environmental hazards:

Marine pollutant: Yes

14.6 Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code): 86 **EMS Number:** F-A,S-B

Stowage Category

Stowage Code SW2 Clear of living quarters.

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

Transport/Additional information:

NZS

Limited quantities (LQ) 1L Transport category 2 **Tunnel restriction code** Ε

IMDG

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation": UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S.

(SULPHURIC ACID, POTASSIUM DICHROMATE), 8

(6.1), II

SECTION 15: Regulatory information

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

New Zealand Inventory of Chemicals

All ingredients are listed.

HSNO Approval numbers

CAS: 7778-50-9 Potassium dichromate

HSR001437

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms









GHS05 GHS06 GHS08 GHS09

Signal word Danger

Hazard-determining components of labelling:

sulphuric acid

Potassium dichromate

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Safety Data Sheet in accordance with HSNO

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Trade name: Reagent COD2 (B)

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Hazard statements

H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H373 May cause damage to the respiratory system through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category H2 ACUTE TOXIC

Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

National regulations:

Additional classification according to Decree on Hazardous Materials, Annex II:

Carcinogenic hazardous material group III (dangerous).

Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

CAS: 7778-50-9 Potassium dichromate

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

16.1 Relevant phrases

H272 May intensify fire; oxidizer.

H301 Toxic if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

(Contd. on page 11)

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Trade name: Reagent COD2 (B)

(Contd. of page 10)

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning

the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par routé (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Oxidising solids Category 2: Oxidizing solids - Category 2

Acute oral toxicity Category 3: Acute toxicity - Category 3

Acute dermal toxicity Category 4: Acute toxicity - Category 4

Acute inhalation toxicity Category 2: Acute toxicity - Category 2

Skin corrosion Category 1A: Skin corrosion/irritation - Category 1A

Skin corrosion Category 1B: Skin corrosion/irritation - Category 1B

Serious eye damage Category 1: Serious eye damage/eye irritation – Category 1 Respiratory sensitisation Category 1: Respiratory sensitisation – Category 1

Skin sensitisation Category 1: Skin sensitisation - Category 1

Germ cell mutagenicity Category 1: Germ cell mutagenicity - Category 1

Carcinogenicity Category 1: Carcinogenicity – Category 1

Reproductive toxicity Category 1: Reproductive toxicity - Category 1

Specific target organ toxicity - repeated exposure Category 1: Specific target organ toxicity (repeated exposure) - Category 1 Specific target organ toxicity - repeated exposure Category 2: Specific target organ toxicity (repeated exposure) - Category 2 Hazardous to the aquatic environment acute Category 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Hazardous to the aquatic environment chronic Category 1: Hazardous to the aquatic environment - long-term aquatic hazard -

Hazardous to the aquatic environment chronic Category 2: Hazardous to the aquatic environment - long-term aquatic hazard -Category 2

* Data compared to the previous version altered.

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eonle for Process Automation

Date of issue: 20.09.2024 Version 6 (replaces version 5) Revision: 20.09.2024

SECTION 1: Identification of the substance or mixture and of the supplier

1.1 Product identifier

Trade name: Reagent COD3 (A+B)

Article number: 71251190A

CAS Number: 57-50-1
EC number: 200-334-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen

Further information obtainable from:

Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC@endress.com

1.4 Emergency telephone number: 0064 800 764 766

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified, according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/Information on ingredients

3.1 Substances

CAS No. Description

CAS: 57-50-1 sucrose

Identification number(s) EC number: 200-334-9

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

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Trade name: Reagent COD3 (A+B)

(Contd. of page 1)

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- **5.3 Advice for firefighters** *No further relevant information available.*

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- 6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

No special measures required.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Storage class: 11

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 57-50-1 sucrose

WES (New Zealand) Long-term value: 10 mg/m³

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

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Trade name: Reagent COD3 (A+B)

(Contd. of page 2)

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

Hand protection No chemical-protective gloves required.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Not required.

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state Solid Colour: Colourless Odour: Odourless **Odour threshold:** Not determined. Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling

range Undetermined.

Flammability Product is not flammable.

Lower and upper explosion limit

Lower: Not determined. Upper: Not determined. Flash point: Not applicable. **Decomposition temperature:** Not determined. Not applicable. рΗ

Viscosity:

Kinematic viscosity Not applicable. Not applicable. Dynamic:

Solubility

water: Soluble.

Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure: Not applicable.

Density and/or relative density

Density at 20 °C: 0.94 g/cm3 Not determined. Relative density Vapour density Not applicable. Particle characteristics Not determined.

9.2 Other information

Appearance:

Form: Crystalline powder

Important information on protection of health

and environment, and on safety.

Ignition temperature: Not determined.

Explosive properties: Product does not present an explosion hazard.

Not determined.

Molecular weight 342.3 g/mol

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Trade name: Reagent COD3 (A+B)

(Contd. of page 3)

Change in condition

Evaporation rate Not applicable.

Information with regard to physical hazard

classes

Explosives Void Flammable gases Void **Aerosols** Void **Oxidising gases** Void Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void **Pyrophoric liquids** Void Pyrophoric solids Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void **Oxidising liquids** Void **Oxidising solids** Void Organic peroxides Void Corrosive to metals Void **Desensitised explosives** Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

CAS: 57-50-1 sucrose

Oral LD50 29,700 mg/kg (rat)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

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

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

STOT-single exposure Based on available data, the classification criteria are not met.

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.

11.2 Information on other hazards

Endocrine disrupting properties

Substance is not listed.

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in accordance with HSNO

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Trade name: Reagent COD3 (A+B)

(Contd. of page 4)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number

ADN, IMDG, IATA Void

14.2 UN proper shipping name

NZS, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

NZS, ADN, IMDG, IATA

Class

14.4 Packing group

NZS, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Not applicable.

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

Transport/Additional information: Not dangerous according to the above specifications.

UN "Model Regulation": Void

SECTION 15: Regulatory information

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

New Zealand Inventory of Chemicals

Substance is listed.

HSNO Approval numbers

Substance is not listed.

Labelling according to Regulation (EC) No 1272/2008 Void

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Trade name: Reagent COD3 (A+B)

(Contd. of page 5)

Hazard pictograms Void Signal word Void Hazard statements Void

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

National regulations:

Waterhazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR **Contact:** MSDS.pcc@endress.com **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

- N7 ---

^{*} Data compared to the previous version altered.