19.09.2024	Kit Components	
Product code	Description	
CAY850-V10AAE	CY7xCU Reagent Set for copper	
Components:		
51508334	Reagent CU1 for copper	
71260900	Reagent CU2 for copper	

Printing date 19.09.2024

# Endress+Hauser

People for Process Automation Version 5 (replaces version 4)

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# **SECTION 1:** Identification of the substance/mixture and of the company/ undertaking

**1.1 Product identifier** 

Trade name: <u>Reagent CU1</u> Synonym: for copper

Article number: 51508334

**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: 0044 717 635 91 91

# **SECTION 2: Hazards identification**

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

corrosion

Skin Corr. 1BH314 Causes severe skin burns and eye damage.Eye Dam. 1H318 Causes serious eye damage.



STOT SE 3 H335 May cause respiratory irritation.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. Hazard pictograms



Signal word Danger

Hazard-determining components of labelling: ammonia
Hazard statements
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
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.

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P310	Immediately call a POISON CENTER/doctor.
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 hazard	

#### 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.

Dangerous components:		
CAS: 3012-65-5 EINECS: 221-146-3	diammonium hydrogen 2-hydroxypropane-1,2,3- tricarboxylate	20-40%
	♦ Eye Irrit. 2, H319	
CAS: 1336-21-6 EINECS: 215-647-6	ammonia ♦ Skin Corr. 1B, H314; ♦ Aquatic Acute 1, H400 Specific concentration limit: STOT SE 3; H335: C ≥ 5 %	2-6%
Registration number: 01- 2119488876-14-xxxx	Specific concentration limit: STOT SE 3; H335: $C \ge 5 \%$	
Additional information. For th	warding of the listed beford phrases refer to eastion 16	

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.

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: Firefighting 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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### Trade name: Reagent CU1

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### **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.
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

Keep away from heat and direct sunlight. 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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.

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### 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

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:	Ammonia-like	
Odour 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.	
рН	Alkaline	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	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:	0.871 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined.	

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#### Trade name: Reagent CU1

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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.
h h - h	Not determined.
Solvent content:	
Water:	59.0 %
Solids content:	0.0 %
Change in condition	
Evaporation rate	Not determined.
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	e
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. STOT-single exposure May cause respiratory irritation.

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### Trade name: Reagent CU1

### 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.

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 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground.

# **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.* 

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		
ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	Void	
14.4 Packing group		
ADR, IMDG, IATA	Void	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according to IM	10	
instruments	Not applicable.	
UN "Model Regulation":	Void	
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# **SECTION 15: Regulatory information**

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

Regulated explosives precursors

None of the ingredients is listed.

#### **Regulated poisons**

None of the ingredients is listed.

#### Reportable explosives precursors

None of the ingredients is listed.

### **Reportable poisons**

CAS: 1336-21-6 ammonia

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

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



### Signal word Danger

Hazard-determining components of labelling: ammonia Hazard statements

H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.

### 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.
- 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 2 (Self-assessment): 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.H319 Causes serious eye irritation.H335 May cause respiratory irritation.H400 Very toxic to aquatic life.

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#### Trade name: Reagent CU1

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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 \* Data compared to the previous version altered. GB - Printing date 19.09.2024

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# **SECTION 1:** Identification of the substance/mixture and of the company/ undertaking

### **1.1 Product identifier**

Trade name: <u>Reagent CU2</u> Synonym: for copper

Article number: 71260900

**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: 0044 717 635 91 91

# **SECTION 2: Hazards identification**

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

flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. Hazard pictograms



# Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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

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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### Trade name: Reagent CU2

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.

Dangerous components:			
CAS: 64-17-5	ethanol	🚸 Flam. Lig. 2, H225	30-50%
EINECS: 200-578-6		•	
Registration number: 01-2119457610-43-XXXX			
	P ( ) I ( ) (	<i>f i i i i i</i>	

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.

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

After skin contact: Immediately rinse with water.

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: Firefighting 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 equipment. Keep unprotected persons away.

Wear protective clothing.

6.2 Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

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). 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.

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### Trade name: Reagent CU2

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling** *Keep away from heat and direct sunlight.* **Information about fire - and explosion protection:** *Keep ignition sources away - Do not smoke. Protect against electrostatic charges.* 

### 7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Storage class: 3 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: 64-17-5 ethanol

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

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:

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

### 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. No chemical-protective gloves required.

### Material of gloves

Nitrile rubber, NBR

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.

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Trade name: Reagent CU2

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### 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:	Alcohol-like	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boiling		
range	78 °C	
Flammability	Highly flammable.	
Lower and upper explosion limit		
Lower:	3.5 Vol %	
Upper:	15 Vol %	
Flash point:	< 23 °C	
Auto-ignition temperature:	425 °C	
Decomposition temperature:	Not determined.	
pH	Neutral	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	
Solubility		
water:	Fully miscible.	
Partition coefficient n-octanol/water (log value)	Not determined.	
Vapour pressure at 20 °C:	59 hPa	
Density and/or relative density		
Density at 20 °C:	0.891 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined.	
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 is not explosive. However, formation of	
O have to a set out	explosive air/vapour mixtures are possible.	
Solvent content:	50.0.0/	
Organic solvents:	50.0 %	
Water:	49.5 %	
Solids content:	0.0 %	
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard		
classes		
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
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### Trade name: Reagent CU2

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Oxidising gases	Void	( 10 )
Gases under pressure	Void	
Flammable liquids	Highly flammable liquid and vapour.	
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: 64-17-5 ethanol		
Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	7,060 mg/kg (rat) 20,000 mg/l (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. 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.

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### Trade name: Reagent CU2

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. 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.* 

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 ADR IMDG IATA 14.3 Transport hazard class(es)	UN1170 UN1170 ETHANOL (ETHYL ALCOHOL) solution ETHANOL (ETHYL ALCOHOL) solution Ethanol solution
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code): EMS Number:	33 5 5 5 0
Stowage Category	F-E,S-D A
14.7 Maritime transport in bulk according to IMC	
instruments	, Not applicable.
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### Trade name: Reagent CU2

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Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
UN "Model Regulation":	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN 1170 ETHANOL (ETHYL ALCOHOL) SOLUTION, 3, II

# **SECTION 15: Regulatory information**

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

None of the ingredients is listed.

### **Regulated poisons**

None of the ingredients is listed.

### Reportable explosives precursors

None of the ingredients is listed.

### **Reportable poisons**

None of the ingredients is listed.

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

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

s



### Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.

### Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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

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** *P5c FLAMMABLE LIQUIDS* 

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

### National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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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

H225 Highly flammable liquid and vapour. 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids - Category 2 \* Data compared to the previous version altered. GB