Endress + Hauser 🔣

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

#### 1.1 Product identifier

Trade name: CA80FE Reagent RK

Synonym: for iron

Article number: CY80FE-MM+SF

### 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 oral toxicity Category 3 H301 Toxic if swallowed.



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

Serious eye damage Category 1 H318 Causes serious eye damage.



Acute dermal toxicity Category 4 H312 Harmful in contact with skin.

Acute inhalation toxicity Category 4 H332 Harmful if inhaled.

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**



GHS05 GHS06

Signal word Danger

## Hazard-determining components of labelling:

ammonium thioglycolate thioglycolic acid

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#### **Hazard statements**

H301 Toxic if swallowed.

H312+H332 Harmful in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

#### **Precautionary statements**

IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P301+P310

P321 Specific treatment (see on this label).

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.

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

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.

Dangerous components:		
	ammonium thioglycolate	10-20%
EINECS: 226-540-9	Acute oral toxicity Category 3, H301; Corrosive to metals Category 1, H290; Skin sensitisation Category 1, H317	
	thioglycolic acid	10-20%
EINECS: 200-677-4	Acute oral toxicity Category 3, H301; Acute dermal toxicity Category 3, H311; Acute inhalation toxicity Category 3, H331; Skin corrosion Category 1B, H314	

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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

#### After inhalation:

Supply fresh air and to be sure call for a 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:

Do not induce vomiting; call for medical help immediately.

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

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## 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.

## 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

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: 6.1 B

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

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# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 68-11-1 thioglycolic acid

WES (New Zealand) Long-term value: 3.8 mg/m³, 1 ppm

skin

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.

## 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: Yellow Odour: Characteristic

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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.

pH at 20 °C 3-5

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:1.093 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:
 64.5 %

 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 **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

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Desensitised explosives Void

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# **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 swallowed.

Harmful in contact with skin or if inhaled.

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

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation May cause an allergic skin reaction.

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 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.

# **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.

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# **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

Label

**IMDG** 



Class Label

**IATA** 



**Class** Label

14.4 Packing group NZS, IMDG, IATA

14.5 Environmental hazards:

14.6 Special precautions for user

Hazard identification number (Kemler code):

**EMS Number:** Segregation groups

**Stowage Category** 

**Stowage Code** 14.7 Maritime transport in bulk according to IMO

instruments

**Transport/Additional information: NZS** 

**Transport category Tunnel restriction code IMDG** 

Limited quantities (LQ)

Limited quantities (LQ)

UN2922

UN2922 CORROSIVE LIQUID, TOXIC, N.O.S. (ammonium thioglycolate, THIOGLYCOLIC ACID) CORROSIVE LIQUID, TOXIC, N.O.S. (ammonium

thioglycolate, THIOGLYCOLIC ACID)

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

thioglycolate, THIOGLYCOLIC ACID)

8 (CT1) Corrosive substances.

8+6.1

8 Corrosive substances.

8/6.1

8 Corrosive substances.

8 (6.1)

II

Not applicable.

Warning: Corrosive substances. 86

F-A,S-B (SGG1) Acids

В

SW2 Clear of living quarters.

Not applicable.

1L

2 Ε

1L

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**UN "Model Regulation":** 

**Excepted quantities (EQ)** Code: E2 (Contd. of page 7)

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN 2922 CORROSIVE LIQUID. TOXIC. N.O.S. (AMMONIUM THIOGLYCOLATE, THIOGLYCOLIC

ACID), 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** 

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 GHS06

Signal word Danger

## Hazard-determining components of labelling:

ammonium thioglycolate

thioglycolic acid

#### **Hazard statements**

H301 Toxic if swallowed.

H312+H332 Harmful in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

**Precautionary statements** 

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

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.

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

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 3 (Self-assessment): extremely 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

H290 May be corrosive to metals.

H301 Toxic if swallowed.

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H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

### 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)

ICAO: International Civil Aviation Organisation

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

Corrosive to metals Category 1: Corrosive to metals - Category 1

Acute oral toxicity Category 3: Acute toxicity – Category 3
Acute dermal toxicity Category 4: Acute toxicity – Category 4

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

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

<sup>\*</sup> Data compared to the previous version altered.