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# **SECTION 1: Identification**

**Product identifier** 

Trade name: CA80FE Reagent RK

Synonym: for iron

Article number: CY80FE-MM+SF

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

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

Regional representation: Endress+Hauser Australia Pty Ltd 16 Giffnock Avenue Macquarie Park, NSW 2113 Australia

Phone: 1300 363 707 Phone: +61 2 8877 7000

Emergency telephone number: Poison Hotline: 13 11 26

# **SECTION 2: Hazard(s) Identification**

#### Classification of the substance or mixture



skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 1 H330 Fatal if inhaled.



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



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

Eve Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H312 Harmful in contact with skin.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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# Label elements

#### **GHS** label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

## **Hazard pictograms**







GHS05 GHS06 GHS08

# Signal word Danger

# Hazard-determining components of labelling:

ammonium thioglycolate

thioglycolic acid

### **Hazard statements**

Toxic if swallowed.

Harmful in contact with skin.

Fatal if inhaled.

Causes severe skin burns and eye damage.

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

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

# **Precautionary statements**

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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

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

Specific treatment is urgent (see on this label).

Take off contaminated clothing and wash it before reuse.

Store locked up.

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

# 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 and Information on Ingredients**

#### **Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 5421-46-5	ammonium thioglycolate	10-20%
EINECS: 226-540-9	<ul> <li>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 1, H330;</li> <li>Resp. Sens. 1, H334; STOT RE 2, H373;</li> <li>Met. Corr.1, H290;</li> <li>Skin Irrit. 2, H315; Eye Irritation 2A, H319; Skin Sens. 1, H317</li> </ul>	
	thioglycolic acid Acute Tox. 3, H301; Acute Tox. 1, H330; STOT RE 2, H373; Skin Corr. 1B, H314; Acute Tox. 4, H312; Skin Sens. 1, H317	10-20%

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

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#### **SECTION 4: First Aid Measures**

### 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.

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:

Do not induce vomiting; call for medical help immediately.

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

### Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Fire Fighting Measures**

# **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

Special hazards arising from the substance or mixture

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

Advice for firefighters No further relevant information available.

Protective equipment: Mount respiratory protective device.

## **SECTION 6: Accidental Release Measures**

# Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

#### **Environmental precautions:**

Dilute with plenty of water.

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

# 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 item 13.

Ensure adequate ventilation.

### 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.

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# **SECTION 7: Handling and Storage**

#### Precautions for safe handling

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.

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

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

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

### **Control parameters**

Ingredients with limit values that req	uire monitoring at the workplace:

CAS: 68-11-1 thioglycolic acid

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

Sk

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

#### **Exposure controls**

Appropriate engineering controls No further data; see item 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.

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.

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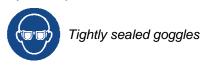
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#### Penetration time of glove material

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



Body protection: Protective work clothing

# **SECTION 9: Physical and Chemical Properties**

Information on basic physical and chemical properties

**General Information** 

Physical state Fluid
Colour: Yellow
Odour: Characteristic
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/cm³
Relative density Not determined.
Vapour density Not determined.

Other information Appearance:

Form: Fluid

Important information on protection of health

and environment, and on safety.

**Auto-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

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(Contd. of page 5) 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**

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

**Incompatible materials:** No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

# **SECTION 11: Toxicological Information**

## Information on hazard classes as defined in Regulation (EC) No 1272/2008 **Acute toxicity**

Toxic if swallowed.

Harmful in contact with skin.

Fatal 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 allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

Information on other hazards

### **Endocrine disrupting properties**

None of the ingredients is listed.

# **SECTION 12: Ecological Information**

**Toxicity** 

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

**PBT:** Not applicable. vPvB: Not applicable.

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### **Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

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.

# **SECTION 13: Disposal considerations**

### 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.

thioglycolate, THIOGLYCOLIC ACID)

thioglycolate, THIOGLYCOLIC ACID)

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

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

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**

**UN number or ID number** 

IMDG, IATA

**UN proper shipping name** 

**ADG** 

**IMDG** 

**IATA** 

Transport hazard class(es)

**ADG** 





**Class** 8 (CT1) Corrosive substances.

8+6.1

Label **IMDG** 





**Class** 8 Corrosive substances.

Label 8/6.1

IATA





Class 8 Corrosive substances.

Label

**Packing group** ADG, IMDG, IATA

**Environmental hazards:** 

8 (6.1)

Not applicable.

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# Safety Data Sheet

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Trade name: CA80FE Reagent RK

Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code): 86 **EMS Number:** F-A.S-B Segregation groups Acids **Stowage Category** R

**Stowage Code** SW2 Clear of living quarters.

Maritime transport in bulk according to IMO

instruments Not applicable.

**Transport/Additional information:** 

**ADG** 

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.

(AMMONIUM THIOGLYCOLATE, THIOGLYCOLIC ACID),

8 (6.1), II

# **SECTION 15: Regulatory information**

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

	Australian Inventory of Industrial Chemicals	
Ī	CAS: 7732-18-5	water
ĺ	CAS: 5421-46-5	ammonium thioglycolate
ĺ	CAS: 68-11-1	thioglycolic acid

# Standard for the Uniform Scheduling of Medicines and Poisons

CAS: 68-11-1 thioglycolic acid

S5, S6

## **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

#### **GHS** label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

# Hazard pictograms







GHS05 GHS06 GHS08

#### Signal word Danger

### Hazard-determining components of labelling:

ammonium thioglycolate

thioglycolic acid

# **Hazard statements**

Toxic if swallowed.

Harmful in contact with skin.

Fatal if inhaled.

Causes severe skin burns and eye damage.

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

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

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Trade name: CA80FE Reagent RK

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### **Precautionary statements**

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment is urgent (see on this label).

Take off contaminated clothing and wash it before reuse.

Store locked up.

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. 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.

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

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 Met. Corr.1: Corrosive to metals – Category 1

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 1: Acute toxicity - Category 1

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation - Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

\* Data compared to the previous version altered.

- AUS -