## Safety data sheet

Printing date 21.10.2024

according to Regulation (EC) No 1907/2006, Article 31

Version 3 (replaces version 2)

Endress+Hauser 🖪

eople for Process Automation

Revision: 21.10.2024

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

**1.1 Product identifier** 

Trade name: <u>Standard solution Fe</u> Synonym: 4 mg/L

Article number: CY80FE-MM+TO

**1.2 Relevant identified uses of the substance or mixture and uses advised against Product category** *PC21* Laboratory chemicals

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: Phone: +49(0)6131-19240

## **SECTION 2: Hazards identification**

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

**3.2 Mixtures Description:** *aqueous solution* 

**Dangerous components:** Void **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: 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.

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

After swallowing: If symptoms persist consult doctor.

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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: 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 clothing.* **6.2 Environmental precautions:** *Dilute with plenty of water.* 

6.3 Methods and material for containment and cleaning up:

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

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** *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: *12* 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:

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

Respiratory protection: Not required.

Hand protection No chemical-protective gloves required.

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**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. 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 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** Fluid Colour: Colourless Odour: Odourless **Odour threshold:** Not determined. Melting point/freezing point: 0°C 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 2.5-4 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: $1 a/cm^3$ **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 does not present an explosion hazard. Not determined. Solvent content: Water: 100.0 % Solids content: 0.0 % Change in condition **Evaporation rate** Not determined.

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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. 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.

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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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: Not hazardous for water.

## **SECTION 13: Disposal considerations**

**13.1 Waste treatment methods Recommendation** *Smaller quantities can be disposed of with household waste.* 

European waste catalogue

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

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 ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 14.3 Transport hazard class(es)	Void Void
ADR, ADN, IMDG, IATA Class 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant:	Void Void No
14.6 Special precautions for user 14.7 Maritime transport in bulk according to IMC instruments Transport/Additional information: UN "Model Regulation":	Not applicable. Not applicable. Not dangerous according to the above specifications. Void

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008 *Void* Hazard pictograms *Void* Signal word *Void* Hazard statements *Void* 

Directive 2012/18/EU

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

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

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### **REGULATION (EU) 2019/1148**

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

### Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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

Date of previous version: 19.05.2021

#### Version number of previous version: 2

### 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

\* Data compared to the previous version altered.

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