

## \* 1 Identification

### Product identifier

Trade name: **Standard solution Fe**

Synonym: 100 µg/L

Article number: CY80FE-MM+TH

Application of the substance / the mixture *Laboratory chemicals*

### Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

Endress+Hauser Conducta Inc.  
4123 E. La Palma Ave., Suite 200  
Anaheim  
CA 92807-1813  
USA

#### Information department:

Phone: +49 (0)7156 209-117  
Fax.: +49 (0)7156 209-222  
E-Mail: [conducta\\_service@conducta.endress.com](mailto:conducta_service@conducta.endress.com)

Emergency telephone number: 001 18000 222 1222

## \* 2 Hazard(s) identification

### Classification of the substance or mixture

*The product is not classified according to the Globally Harmonized System (GHS).*

### Label elements

GHS label elements *Void*

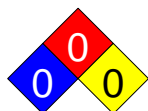
Hazard pictograms *Void*

Signal word *Void*

Hazard statements *Void*

Classification system:

NFPA ratings (scale 0 - 4)



Health = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

### 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.*

## \* 3 Composition/information on ingredients

### Chemical characterization: Mixtures

Description: *aqueous solution*

Dangerous components: *Void*

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

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## 4 First-aid measures

### 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.*

### Information for doctor:

#### 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.*

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## \* 5 Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing agents:

*CO<sub>2</sub>, extinguishing 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** *No further relevant information available.*

#### Advice for firefighters

**Protective equipment:** *No special measures required.*

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## \* 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** *Not required.*

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

#### Methods and material for containment and cleaning up:

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

#### 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.*

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## \* 7 Handling and storage

### Handling:

**Precautions for safe handling** *No special measures required.*

**Information about protection against explosions and fires:** *No special measures required.*

#### 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.*

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

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## 8 Exposure controls/personal protection

**Additional information about design of technical systems:** *No further data; see item 7.*

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**Control parameters****Components 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 that were valid during the creation were used as basis.*

**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

*The usual precautionary measures for handling chemicals should be followed.*

**Breathing equipment:** *Not required.*

**Protection of hands:** *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. 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

**Eye protection:** *Goggles recommended during refilling.*

\* **9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	<i>Fluid</i>
<b>Color:</b>	<i>Colorless</i>
<b>Odor:</b>	<i>Characteristic</i>
<b>Odor threshold:</b>	<i>Not determined.</i>

**Important information on protection of health and environment, and on safety.**

**pH-value:** *Not determined.*

**Change in condition**

<b>Melting point/Melting range:</b>	<i>0 °C (32 °F)</i>
<b>Boiling point/Boiling range:</b>	<i>100 °C (212 °F)</i>

**Flash point:** *Not applicable.*

**Flammability (solid, gaseous):** *Not applicable.*

**Ignition temperature:**

**Decomposition temperature:** *Not determined.*

**Auto igniting:** *Product is not selfigniting.*

**Danger of explosion:** *Product does not present an explosion hazard.*

**Explosion limits:**

<b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>

**Vapor pressure at 20 °C (68 °F):** *23 hPa (17.3 mm Hg)*

**Density at 20 °C (68 °F):** *1 g/cm<sup>3</sup> (8.345 lbs/gal)*

**Relative density** *Not determined.*

**Vapor density** *Not determined.*

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**Evaporation rate** *Not determined.*

**Solubility in / Miscibility with Water:** *Fully miscible.*

**Partition coefficient (n-octanol/water):** *Not determined.*

**Viscosity:**  
**Dynamic:** *Not determined.*  
**Kinematic:** *Not determined.*

**Solvent content:**  
**Water:** *100.0 %*

**Solids content:** *0.0 %*  
**Other information** *No further relevant information available.*

## \*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.*

## \*11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:**

**Primary irritant effect:**

**on the skin:** *No irritant effect.*

**on the eye:** *No irritating effect.*

**Sensitization:** *No sensitizing effects known.*

**Additional toxicological information:**

*The product is not subject to classification according to internally approved calculation methods for preparations:*

*When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.*

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer)**

*None of the ingredients is listed.*

**NTP (National Toxicology Program)**

*None of the ingredients is listed.*

**OSHA-Ca (Occupational Safety & Health Administration)**

*None of the ingredients is listed.*

## \*12 Ecological information

**Toxicity**

**Aquatic toxicity:** *No further relevant information available.*

**Persistence and degradability** *No further relevant information available.*

**Behavior in environmental systems:**

**Bioaccumulative potential** *No further relevant information available.*

**Mobility in soil** *No further relevant information available.*

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**Additional ecological information:**

**General notes:** *Generally not hazardous for water*

**Results of PBT and vPvB assessment**

**PBT:** *Not applicable.*

**vPvB:** *Not applicable.*

**Other adverse effects** *No further relevant information available.*

## 13 Disposal considerations

**Waste treatment methods**

**Recommendation:** *Smaller quantities can be disposed of with household waste.*

**Uncleaned packagings:**

**Recommendation:** *Disposal must be made according to official regulations.*

**Recommended cleansing agent:** *Water, if necessary with cleansing agents.*

## \*14 Transport information

**UN-Number**

DOT, ADR, ADN, IMDG, IATA *Void*

**UN proper shipping name**

DOT *Void*

*void*

ADR, ADN, IMDG, IATA *Void*

**Transport hazard class(es)**

DOT, ADR, ADN, IMDG, IATA

Class *Void*

**Packing group**

DOT, ADR, IMDG, IATA *Void*

**Environmental hazards:**

**Marine pollutant:** *No*

**Special precautions for user** *Not applicable.*

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** *Not applicable.*

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

**UN "Model Regulation":** *Void*

## \*15 Regulatory information

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

**Section 355 (extremely hazardous substances):**

*None of the ingredient is listed.*

**Section 313 (Specific toxic chemical listings):**

*None of the ingredients is listed.*

**TSCA (Toxic Substances Control Act):**

*All ingredients are listed.*

**Proposition 65**

**Chemicals known to cause cancer:**

*None of the ingredients is listed.*

**Chemicals known to cause reproductive toxicity for females:**

*None of the ingredients is listed.*

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<b>Chemicals known to cause reproductive toxicity for males:</b>
<i>None of the ingredients is listed.</i>

<b>Chemicals known to cause developmental toxicity:</b>
<i>None of the ingredients is listed.</i>

**Carcinogenicity categories**

<b>EPA (Environmental Protection Agency)</b>
<i>None of the ingredients is listed.</i>

<b>TLV (Threshold Limit Value established by ACGIH)</b>
<i>None of the ingredients is listed.</i>

<b>MAK (German Maximum Workplace Concentration)</b>
<i>None of the ingredients is listed.</i>

<b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
<i>None of the ingredients is listed.</i>

**GHS label elements** *Void*

**Hazard pictograms** *Void*

**Signal word** *Void*

**Hazard statements** *Void*

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

**\*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 - TWRC*

**Contact:** *MSDS@conducta.endress.com*

**Date of preparation / last revision** *03/22/2018 / -*

**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 européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*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)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

**\* Data compared to the previous version altered.**