### SAFETY DATA SHEET



according to Regulation (EU) No. 453/2010

# **Electrolyte F12**

# 1. Identification of the substance/mixture company/undertaking

1.1. Product identifier

**Product code** None.

**Synonyms** None.

1.2. Relevant identified uses of the substance or mi and use

Use of the ing electrolyte in electroplating industry cing/

Substance/Preparation

1.3. Details of the supplier of fety d heet

JT FIS Company/Undertaking Identification

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15 (8-17h)

com / www.helmutfischer.com

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51 51 51 [24h/7] number

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#### 2. Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP)

Serious eye damage/eye irritation, Cat. 2, H319

Specific target organ toxicity (single exposure, inhalation), Cat. 3,

H335

Skin corrosion/irritation, Cat. 1A, H314

Dispose of contents/container according to local and national

regulations.

Classification according to EU Directives 67/548/EEC or

C; R34 Xi; R37

1999/45/EC

For the full text of the phrases mentioned in this Section, see

Section 16.

2.2. Label elements

**Additional information** 





Signal Word Hazard Statements

Danger

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

**Precautionary statements** 

P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280: Wear protective gloves/ protective clothing/ eye protection/

face protection.

P304+P340: IF INHALED: Remove victim to fresh air and keep at

rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Additional advice

Dispose of contents/container according to local and national

regulations.

**GHS** product identifier

Hydrochloric acid, EC-No. 231-595-7

#### Labelling according to Directives 67/548/EEC or 1999/45/EC



C - Corrosive.

**R-phrase(s)** R34: Causes burns.

R37: Irritating to respiratory system.

**S-phrase(s)** S2: Keep out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye /

face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S29/35: Do not empty into drains; dispose of this material and

its container in a safe way.

Hazardous component(s) which must be listed on the label

Hydrochloric acid, EC-No. 231-595-7



2.3. Other hazards

No information available.

## 3. Composition/information on ingredients

Chemical characterization acidic aqueous solution

Components		CLP Classification	DSB/DPD Classification	CAS	REACH No.
Hydrochloric acid	10% - 15%	Skin Corr. 1B H314, STOT SE 3 H335 [CSk1B: C ≥ 25 %   4Sk2: 10 % ≤ C < 25 %   4Sk2: 0 % ≤ C < 25 %   4Sk2: 10 %   Nota P	C; R-34-37, Nota B [C >- 25 % \ C; R-34-37, 10 \ 10 \ \ <= \ \ < 25 \ \ \ \ \ \ \ \ R-36/37/99		

For the full text of the phrases mentioned in this Section, see Section 16.

**Hazardous impurities** 

None known

### 4. First aid measures

#### 4.1. Description of first aid measures

Inhalation Move to reshair. Consult a physician after significant exposure.

Skin contact Wash off with polyethylene glycol and afterwards with plenty of

Nate.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Protect unharmed eye. Consult an ophthalmologist.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do not

Induce vomiting without medical advice. Consult a physician for

severe cases.

4.2. Most important symptoms Take off all contaminated clothing immediately.

and effects, both acute and

delayed

None known.

4.3. Indication of any immediate medical attention and special treatment needed

### 5. Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media Water spray mist or foam.

Extinguishing media which must not be used for safety reasons

No extinguishing agent constraints

5.2. Special hazards arising from the substance or mixture

The product is not flammable. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

5.3. Advice for firefighters

Special protective equipment for firefighters

Standard procedure for chemical fires. Wear self-contained breathing apparatus for fire fighting if necessary.

Specific methods

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environmen

#### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel

Ensure adequate ventilation. Do not breathe vapours/aerosol.

Advice for emergency responders

Use personal protective equipment.

- **6.2. Environmental precautions** May change pH of waters. Do not empty into drains.
- 6.3. Methods and material for containment and cleaning up

Soak up with mert absorbent material (e.g. sand, silica gel, acid sinder, universal binder, sawdust). After cleaning, flush away traces with water. Keep in suitable and closed containers for disposal.

**6.4. Reference to other sections** See chapter 8 and 13.

## 7. Handling and storage

7.1. Precautions for safe

Prepare the working solution as given on the label(s) and/or the user instructions.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place.

7.3. Specific end use(s) Use only in accordance with our recommendations.

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

**Exposure limit(s)**No data is available on the product itself.

8.2. Exposure controls

Occupational exposure controls General industrial hygiene practice. Handle in accordance with

good industrial hygiene and safety practice

Personal protection equipment

Respiratory protection In the case of mist, spray or aerosol exposure wear suitable

personal respiratory protection and protective suit. Respirator with

ABEK2-P3 filter

Hand protection Protective gloves complying with EN 374 Nitrile rubber. Break

through time: > 1 h.

Eye protection Safety glasses with side-shields conforming to EN 166. Eye wash

bottle with pure water

Skin and body protection Chemical resistant aproxit Long sleeved clothing.

Thermal hazards Do not heat the product.

Environmental exposure controls Prevent leaks and prevent soil / water pollution caused by leaks.

# 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Form
Colour
Odour
None.

Odour Threshold No Information available.

pH:

Melting point/range.

No information available.

No information available.

Flash point: does not flash

No information available.

Relative density: 1.05 g/cm3

Nater solubility: completely miscible
Partition coefficient (n No information available.

octanol/water):

Autoignition temperature: No information available.

Decomposition temperature: No information available.

No information available. Viscosity:

Combustion/explosion hazards: not hazardous

Oxidizing properties:

None

9.2. Other information

**General Product Characteristics** No information available.



### 10. Stability and reactivity

10.1. Reactivity has a corrosive effect

10.2. Chemical stability Stable at normal

10.3. Possibility of hazardous

reactions

No hazards to be specially oned.

10.4. Conditions to avoid Heating.

10.5. Incompatible materials droge eact

10.6. Hazardous decomposition

products

n, by netals.

### 11. Toxicological information

#### 11.1. Information on tox

**Acute toxicity** vailab on the product itself.

Skin corrosion/in s burns

Serious eye damage/eye mage to eyes.

irritation

Respiratory / Skin S ation

nogenicity no ingredient listed as a carcinogen.

ricity rm çeli mut Contains no ingredient listed as a mutagen.

e toxicit d not show teratogenic effects in animal experiments.

May cause damage to organs (Upper respiratory tract.) if inhaled. Specific target organ toxic

posu

ecific targ No data available.

peated

No aspiration toxicity classification.

No data is available on the product itself.

### 12. Ecological information

**12.1. Toxicity** No information on ecology is available

12.2. Persistence and

degradability

No data available.

**12.3. Bioaccumulative potential** No data available.

**12.4. Mobility in soil** No data available.

12.5. Results of PBT and vPvB

assessment

This preparation contains no substance considered to be persistent,

bioaccumulating not toxic (PBT).

12.6. Other adverse effects slightly water contaminating

## 13. Disposal considerations

#### 13.1. Waste treatment methods

Waste from residues / unused products

Do not empty into drains or dispose with household waste. Taking into account local regulations the product may be disposed of as waste water after neutralisation. EWC waste disposal No: 11 01 06.

Contaminated packaging

Rinse empty containers with water and use the rinse water to prepare the working solution. Completely emptied packaging disposed or with household waste. Partially empty containers back to the point of sale or transfer of a collection site for hazardous waste.

### 14. Transport information

ADR/RID

Proper shipping name HYDROCHLORIC ACID

UN No 1789

Class 8

Packing group II.

ADR/RID-Labels 8.

Classification code C1.

Risk No. 80.

Limited quantity 1 L.

Tunnel code E



IMO Proper shipping name Hydrochloric acid

UN No 1789. Class 8.

Packing group II. ADR/RID-Labels 8. Limited quantity 1 L. EmS F-A, S-B. Marine Pollutant no @

ICAO Proper shipping name Hydrochloric asid

UN No 1789. Class 8.

Packing group II.

Packing instruction (passenger aircraft): §51 (11)

Packing instruction (IQ): Y840 (0.6 L)

Packing instruction (cargo aircraft): 855 (30 L).

Inland navigation ADN Proper shipping name HYDROCH/LORIC ACID

UN No 1789. Class 8. Packing group I ADN danger 8

Further Information None

# 15. Regulatory information

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

Regulatory Information The product is classified and labelled according to Regulation (EC)

No. (272/2008 (GHS/CLP

15.2. Chemical safety assessment

Not required.

## 16. Other information

Revision Note Safety datasheet sections which have been updated: 14.

Key or legend to abbreviations CLP: Classification according to Regulation (EC) No. 1272/2008

(GH3/CLP)

VOC: Volatile organic compounds (VOC) content

Key literature references and Information taken from reference works and the literature.

sources for data

onym

Classification procedure Calculation method.

Full text of phrases referred to H314: Causes severe skin burns and eye damage.

nder sections 2 and 3 H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

R34: Causes burns.

R37: Irritating to respiratory system.

**Training advice** For further information, refer to the product technical sheet.

Further information Take notice of the directions of use. SZID 323 34 CH

Instructions for use See product description. For industrial application only, Keep away

from children.

**Disclaimer** The information provided in this Safety Data Sheet is correct to the

best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality

specification.

