

# SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

## Electrolyte F6

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

#### 1.1. Product identifier

Product code None.

Synonyms None.

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Preparation Deplating electrolyte - for checking device in electroplating industry

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

Company/Undertaking Identification  
HELMUT FISCHER AG  
Moosmattstrasse 1 P.O. Box  
CH-6331 Hünenberg  
Switzerland  
  
Tel. +41 (0)41 785 08 15 (8-17h)  
info@helmutfischer.com / www.helmutfischer.com

1.4. Emergency telephone number  
STIZ (Tox-Zentrum) CH-Zürich :  
145 / +41 44 251 51 51 [24h/7]

Revision Date 20.03.2012

Version 2

### 2. Hazards identification

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC None.

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

## 2.2. Label elements

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

<b>R-phrase(s)</b>	None.
<b>S-phrase(s)</b>	S2: Keep out of the reach of children. S24/25: Avoid contact with skin and eyes. S29/35: Do not empty into drains; dispose of this material and its container in a safe way.
<b>Additional advice</b>	Safety data sheet available for professional user on request.
<b>Hazardous component(s) which must be listed on the label</b>	Ammonium thiocyanate, CAS-No. 1762-95-4, EC-No. 217-175-6

**2.3. Other hazards** No information available.

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## 3. Composition/information on ingredients

**Chemical characterization** Aqueous solution; contains inorganic salts.

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

**Hazardous impurities** None known.

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## 4. First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move to fresh air.
<b>Skin contact</b>	Wash hands with water as a precaution.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice.

**4.2. Most important symptoms and effects, both acute and delayed** None known.

**4.3. Indication of any immediate medical attention and special treatment needed** None known.

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## **5. Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** Water spray.

**Extinguishing media which must not be used for safety reasons** No extinguishing agent constraints

**5.2. Special hazards arising from the substance or mixture** None.

### **5.3. Advice for firefighters**

**Special protective equipment for firefighters** Standard procedure for chemical fires.

**Specific methods** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist may be used to cool closed containers.

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## **6. Accidental release measures**

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

**Advice for non-emergency personnel** No special measures required.

**Advice for emergency responders** Use personal protective equipment.

**6.2. Environmental precautions** No special environmental precautions required.

**6.3. Methods and material for containment and cleaning up** Clean up promptly by sweeping or vacuum. After cleaning, flush away traces with water.

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

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## **7. Handling and storage**

**7.1. Precautions for safe handling** No special technical protective measures required.

**7.2. Conditions for safe storage, including any incompatibilities** Store at room temperature in the original container. Keep out of reach of children.

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

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## 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** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes. Keep away from food and drink.

#### Personal protection equipment

**Respiratory protection** No special protective equipment required.

**Hand protection** PVC disposable gloves

**Eye protection** Avoid contact with eyes. Safety glasses with side-shields. Eye wash bottle with pure water.

**Skin and body protection** Long sleeved clothing.

**Thermal hazards** Do not heat the product.

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

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## 9. Physical and chemical properties

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

**Form** Aqueous solution.  
**Colour** Colourless.  
**Odour** None.  
**Odour Threshold** No information available.

**pH:** 4  
**Melting point/range:** No information available.  
**Boiling point/range:** No information available.  
**Flash point:** does not flash

**Evaporation Rate:** No information available.  
**Flammability:** No information available.  
**Explosion limits:** No information available.  
**Vapour pressure:** No information available.  
**Vapor density:** No information available.  
**Relative density:** 1.16 g/cm<sup>3</sup>  
**Water solubility:** completely miscible  
**Partition coefficient (n-octanol/water):** No information available.  
**Autoignition temperature:** No information available.  
**Decomposition temperature:** No information available.  
**Viscosity:** No information available.  
**Combustion/explosion hazards:** not hazardous

Oxidizing properties: None

## 9.2. Other information

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### 10. Stability and reactivity

10.1. Reactivity	No hazards to be specially mentioned.
10.2. Chemical stability	No decomposition if stored and applied as directed.
10.3. Possibility of hazardous reactions	No hazards to be specially mentioned.
10.4. Conditions to avoid	Direct sources of heat.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	None under normal use.

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### 11. Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	This product has no known adverse effect on human health.
Skin corrosion/irritation	Slight skin irritation.
Serious eye damage/eye irritation	Mild eye irritation.
Respiratory / Skin Sensitisation	None.
Carcinogenicity	Contains no ingredient listed as a carcinogen.
Germ cell mutagenicity	Contains no ingredient listed as a mutagen.
Reproductive toxicity	Contains no ingredient listed as toxic to reproduction.
Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	No data available.
Aspiration hazard	No aspiration toxicity classification.
Human experience	This product has no known adverse effect on human health.

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## **12. Ecological information**

<b>12.1. Toxicity</b>	This product has no known eco-toxicological effects.
<b>12.2. Persistence and degradability</b>	No data is available on the product itself.
<b>12.3. Bioaccumulative potential</b>	No data is available on the product itself.
<b>12.4. Mobility in soil</b>	No data is available on the product itself.
<b>12.5. Results of PBT and vPvB assessment</b>	This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
<b>12.6. Other adverse effects</b>	slightly water contaminating.

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## **13. Disposal considerations**

### **13.1. Waste treatment methods**

#### **Waste from residues / unused products**

Do not put residues of product into household waste. It should be given in the original package to the official waste disposal authorities. EWC waste disposal No: 16 10 01.

#### **Contaminated packaging**

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

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## **14. Transport information**

<b>ADR/RID</b>	Not required.
<b>IMO</b>	Not required.
<b>ICAO</b>	Not required.
<b>Further Information</b>	Not classified as dangerous in the meaning of transport regulations.

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## **15. Regulatory information**

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

#### **Regulatory Information**

In accordance with Regulation (EC) No. 1272/2008 (GHS/CLP), the product does not need to be classified nor labelled.

### **15.2. Chemical safety assessment**

A Chemical Safety Assessment is not required.

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## 16. Other information

<b>Revision Note</b>	Safety datasheet sections which have been updated: 12.
<b>Key or legend to abbreviations and acronyms</b>	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP)
<b>Key literature references and sources for data</b>	Information taken from reference works and the literature.
<b>Classification procedure</b>	Calculation method.
<b>Full text of phrases referred to under sections 2 and 3</b>	None. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R32: Contact with acids liberates very toxic gas. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Training advice</b>	For further information, refer to the product technical data sheet.
<b>Further information</b>	Take notice of the directions of use. SZID 323628[CH]
<b>Instructions for use</b>	For industrial application only. Keep away from children.
<b>Disclaimer</b>	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.