SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

Electrolyte F1

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

1.1. Product identifier

Product code None.

None. **Synonyms**

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

Use of the Deplating electrolyte - for checking device in electroplating industry

Substance/Preparation

Identification

1.3. Details of the supplier of the safety data sheet

Company/Undertaking 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 STIZ (Tox-Zentrum) CH-Zürich:

number 145 / +41 44 251 51 51 [24h/7]

Revision Date 01.06.2012

Version 2

2. Hazards identification

2.1. Classification of the substance or mixture

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

(GHS/CLP)

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

1999/45/EC

C; R34

Additional information

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

Section 16.

2.2. Label elements



Signal Word Hazard Statements Precautionary statements Danger

H314: Causes severe skin burns and eye damage.

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

face protection.

P303+P361+P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/

shower

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

Sulphuric acid, CAS-No. 7664-93-9, EC-No. 231-639-5

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



C - Corrosive.

R-phrase(s)

R34: Causes burns.

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

Sulphuric acid, CAS-No. 7664-93-9, EC-No. 231-639-5

No information available.

3. Composition/information on ingredients

Chemical characterization acidic aqueous solution

Components		CLP Classification	DSD/DPD Classification	CAS	REACH No.
Sulphuric acid	10% - 15%	Skin Corr. 1A H314 [CSk1A: C ≥ 15 % CSk2: 5 % ≤ C < 15 % CEy2: 5 % ≤ C < 15 %], Nota B	C; R-35, Nota B [C >= 15% \ C; R-35 5% <= C < 15% \ Xi; R-36/38]	7664-93-9	

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 fresh air. Consult a physician after significant exposure.

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

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

and effects, both acute and

delayed

Take off all contaminated clothing immediately.

4.3. Indication of any immediate

medical attention and special

treatment needed

None known.

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.

circumstances and the surrounding environment.

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

ions May change pH of waters. Do not empty into drains.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections Se

See chapter 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

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.

Sulfuric acid (CAS 7664-93-9)

EU - Occupational Exposure (2009/161/EU) - Third List of Indicative Occupational Exposure

Limit Values - TWAs

United Kingdom - Workplace Exposure Limits (WELs) - TWAs

0.05 mg/m3 TWA (mist)

0.05 mg/m3 TWA (mist)

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 apron. Long sleeved clothing.

Thermal hazards No special measures required.

Environmental exposure controls No special measures required.

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: ca. 1 (20 °C)

Melting point/range:

Boiling point/range:

No information available.

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.

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Vapor density:No information available.

Relative density: 1.08 g/ml

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

octanol/water):

Autoignition temperature:

Decomposition temperature:

Viscosity:

No information available.

No information available.

No information available.

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 conditions.

10.3. Possibility of hazardous

reactions

No hazards to be specially mentioned.

10.4. Conditions to avoid Heating in air.

10.5. Incompatible materials Gives off hydrogen by reaction with metals.

10.6. Hazardous decomposition

products

Hydrogen, by reaction with metals.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity No data is available on the product itself.

Sulphuric acid (CAS 7664-93-9) LD50/oral 2140 mg/kg. (Rat)

Skin corrosion/irritation Causes burns.

Serious eye damage/eye

irritation

Risk of serious damage to eyes.

Respiratory / Skin Sensitisation None.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Germ cell mutagenicityContains no ingredient listed as a mutagen.

Reproductive toxicity Did not show teratogenic effects in animal experiments.

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 No data is available on the product itself.

12. Ecological information

12.1. Toxicity No information on ecology is available.

> **Sulphuric acid (CAS 7664-93-9)** EC50/48h/Daphnia 29 mg/l.

Sulphuric acid (CAS 7664-93-9) EC50/48h/Daphnia 29 mg/l.

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 nor 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 of 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 SULPHURIC ACID (Sulphuric acid)

UN No 2796. 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 Sulphuric acid with not more than 51% acid

(Sulphuric acid) UN No 2796. 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 Sulphuric acid with 51% or less acid

(Sulphuric acid) UN No 2796. Class 8.

Packing group II.

Packing instruction (passenger aircraft): 851 (1 L).

Packing instruction (LQ): Y840 (0.5 L). Packing instruction (cargo aircraft): 855 (30 L).

Inland navigation ADN Proper shipping name SULPHURIC ACID with not more than 51%

acid (Sulphuric acid)

UN No 2796. Class 8.

Packing group II. ADN danger 8+N3.

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 according to Regulation (EC) No.

1272/2008 (CLP).

Sulfuric acid (CAS 7664-93-9)

EU - Narcotics (273/2004) - Drug Precursors - Annex I - Scheduled Category 3 Substance

Substances

EU - Biocides (1451/2007) - Existing Active Substances

Present

EU - REACH (1907/2006) - Article 15(1) - Substances Regarded as Being Registered - Plant Health

Products

EU - REACH (1907/2006) - List of

Registered Substances

EU - REACH (1907/2006) - List of

Registered Intermediates

UN (United Nations) - Convention on Illicit Traffic in Narcotics & Psychotropics - Table II

Substances

Present

Present

Present

Present

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

and acronyms

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

(GHS/CLP)

VOC: Volatile organic compounds (VOC) content

Key literature references and

sources for data

Information taken from reference works and the literature.

Classification procedure Calculation method.

Full text of phrases referred to

under sections 2 and 3

H314: Causes severe skin burns and eye damage.

R34: Causes burns.

R35: Causes severe burns.

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

Further information Take notice of the directions of use. SZID 323625[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.