

SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

Electrolyte F7

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 Substance/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

01.06.2012

Version

7

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

Danger

Hazard Statements

H314: Causes severe skin burns and eye damage.

Precautionary statements

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

Nitric acid, CAS-No. 7697-37-2, EC-No. 231-714-2

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



C - Corrosive.

R-phrases(s)

R34: Causes burns.

S-phrases(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.

Additional advice

Safety data sheet available for professional user on request.

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

Nitric acid, CAS-No. 7697-37-2, EC-No. 231-714-2

2.3. Other hazards

No information available.

3. Composition/information on ingredients

Chemical characterization

acidic aqueous solution

Components		CLP Classification	DSD/DPD Classification	CAS	REACH No.
Nitric acid	10% - 15%	Skin Corr. 1A H314, Ox. Liq. 3 H272 [CSk1A: C ≥ 20 % ; CSk1B: 5 % ≤ C < 20 % ; Oliq3: C ≥ 65 %] , Nota B	O,C; R-8-35, Nota B [C ≥ 20 % \ C; R-35 ; 5 % ≤ C < 20 % \ C; R-34]	7697-37-2	

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 water.

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.

Specific methods Use extinguishing measures that are appropriate to local 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 Avoid contact with skin and eyes.

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 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 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.

Nitric acid (CAS 7697-37-2)

EU - Occupational Exposure
(2006/15/EC) - Second List of
Indicative Occupational Exposure
Limit Values - STELs 1 ppm STEL
2.6 mg/m³ STEL

United Kingdom - Workplace
Exposure Limits (WELs) - STELs 1 ppm STEL
2.6 mg/m³ STEL

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

pH: ca. 1 (20 °C)
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:	1.08 g/ml
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

General Product Characteristics	No information available.
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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. Nitric acid (CAS 7697-37-2) Inhalation LC50 Rat 130 mg/m ³ 4 h Inhalation LC50 Rat 7 mg/L 1 h
Skin corrosion/irritation	Causes severe 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 mutagenicity	Not mutagenic in Ames Test.
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	EC50/24h/daphnia = 29 mg/l.
Nitric acid (CAS 7697-37-2)	
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	96 h LC50 <i>Gambusia affinis</i> : 72 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 NITRIC ACID UN No 2031. Class 8. Packing group II. ADR/RID-Labels 8. Classification code CO1. Risk No. 80. Limited quantity 1 L. Tunnel code E
IMO	Proper shipping name Nitric acid other than red fuming, with not more than 65 % nitric acid UN No 2031. 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 Nitric acid other than red fuming, with 20% or less nitric acid UN No 2031. 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 NITRIC ACID other than red fuming, with not more than 65 % nitric acid UN No 2031. Class 8. Packing group II. ADN danger 8+N3.
Further Information	Not classified as dangerous in the meaning of transport regulations.

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).
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Nitric acid (CAS 7697-37-2)

EU - REACH (1907/2006) - List of Registered Substances	Present
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EU - REACH (1907/2006) - List of Registered Intermediates	Present
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15.2. Chemical safety assessment	Not required.
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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	H272: May intensify fire; oxidiser. H314: Causes severe skin burns and eye damage. R34: Causes burns. R35: Causes severe burns. R8: Contact with combustible material may cause fire.
Training advice	For further information, refer to the product technical data sheet.
Further information	Take notice of the directions of use. SZID 323629[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.