

SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

Electrolyte F4

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 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

R-phrase(s)	None.
S-phrase(s)	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.
Additional advice	Safety data sheet available for professional user on request.
Hazardous component(s) which must be listed on the label	Ammonium nitrate, CAS-No. 6484-52-2, EC-No. 229-347-8

2.3. Other hazards No information available.

3. Composition/information on ingredients

Chemical characterization Aqueous solution; contains inorganic salts.

Components		CLP Classification	DSD/DPD Classification	CAS	REACH No.
Ammonium nitrate	50% - 75%	Ox. Sol. 3 H272	O; R-8-9	6484-52-2	

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.
Skin contact	Wash hands with water as a precaution.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	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.

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.

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.

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.

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.

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: 5
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: 1.22 g/cm³
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

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.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data is available on the product itself. Ammonium nitrate (CAS 6484-52-2) Inhalation LC50 Rat 88.8 mg/L 4 h Oral LD50 Rat 2217 mg/kg
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.

12. Ecological information

12.1. Toxicity	No data is available on the product itself.
Ammonium nitrate (CAS 6484-52-2)	
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	48 h LC50 Cyprinus carpio: 65-85 mg/L [semi-static]
12.2. Persistence and degradability	No data is available on the product itself.
12.3. Bioaccumulative potential	No data is available on the product itself.
12.4. Mobility in soil	No data is available on the product itself.
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 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.

14. Transport information

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

Ammonium nitrate (CAS 6484-52-2)

EU - Seveso II Directive (96/82/EC) - Qualifying Quantities for Major Accident Notification 350 tonne (including aqueous ammonium nitrate in which the concentration of ammonium nitrate is >80% by weight)

EU - Seveso II Directive (96/82/EC) - Qualifying Quantities for Safety Report Requirements 2500 tonne (including aqueous ammonium nitrate in which the concentration of ammonium nitrate is >80% by weight)

EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances Use restricted. See item 58. (Conditions of restrictions 27 June 2010)

EU - REACH (1907/2006) - List of Registered Substances Present

15.2. Chemical safety assessment A Chemical Safety Assessment is not required.

16. Other information

Revision Note Safety datasheet sections which have been updated: 12.

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

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.

None.
R8: Contact with combustible material may cause fire.
R9: Explosive when mixed with combustible material.

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

Further information Take notice of the directions of use. SZID 323626[CH]

Instructions for use 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.