

SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

Electrolyte F18

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 2

2. Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity, oral, Cat. 4, H302
Dispose of contents/container according to local and national regulations.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn; R20/21/22

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

Warning
H302: Harmful if swallowed.
P264a: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330: Rinse mouth.

Additional advice

Dispose of contents/container according to local and national regulations.

GHS product identifier

Potassium Fluorid, CAS-No. 7789-23-3, EC-No. 232-151-5

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



R-phrases(s)

Xn - Harmful.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

S-phrases(s)

S2: Keep out of the reach of children.
S23: Do not breathe spray
S37: Wear suitable gloves.
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

Potassium Fluorid, CAS-No. 7789-23-3, EC-No. 232-151-5

2.3. Other hazards

No information available.

3. Composition/information on ingredients

Chemical characterization

Aqueous solution of alkali salts.

Components		CLP Classification	DSD/DPD Classification	CAS	REACH No.
Potassium Fluorid	5% - 10%	Acute Tox. 3 H331, Acute Tox. 3 H311, Acute Tox. 3 H301	T; R-23/24/25	7789-23-3	

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. In the case of inhalation of aerosol/mist consult a physician if necessary.

Skin contact

Wash off immediately with plenty of water.

Eye contact

Rinse immediately 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 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.

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. Do not use a solid water stream as it may scatter and spread fire.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	Keep people away from and upwind of spill/leak.
Advice for emergency responders	Do not breathe vapours/dust. Use personal protective equipment.

6.2. Environmental precautions Do not empty into drains.

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	Avoid exposure - obtain special instructions before use. Wear personal protective equipment.
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 skin, eyes and clothing. Keep away from food and drink.

Personal protection equipment

<i>Respiratory protection</i>	No personal respiratory protective equipment normally required. In the case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable mask with particle filter P3 (European Norm 143)
<i>Hand protection</i>	Protective gloves complying with EN 374. Nitrile rubber. Break through time: > 2 h.
<i>Eye protection</i>	Safety glasses with side-shields conforming to EN 166. Eye wash bottle with pure water.
<i>Skin and body protection</i>	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:	7.5
Melting point/range:	No information available.
Boiling point/range:	No information available.
Flash point:	does not ignite
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:	1.07 g/ml
Water solubility:	completely miscible
Partition coefficient (n-octanol/water):	log Pow <1
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	No hazards to be specially mentioned.
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	According to experience not expected. Incompatible with strong acids and oxidizing agents.
10.6. Hazardous decomposition products	None reasonably foreseeable.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data is available on the product itself. Potassium fluoride (CAS 7789-23-3) Oral LD50 Rat 245 mg/kg
Skin corrosion/irritation	May cause skin irritation with susceptible persons.
Serious eye damage/eye irritation	May cause eye/skin 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	No data is available on the product itself.

12. Ecological information

12.1. Toxicity	No data is available on the product itself.
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Potassium fluoride (CAS 7789-23-3)

Ecotoxicity - Freshwater Fish - Acute Toxicity Data	96 h LC50 Ctenopharyngodon idella: 9.3 mg/L
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 information 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 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

Proper shipping name POTASSIUM FLUORIDE SOLUTION
 UN No 3422.
 Class 6.1.
 Packing group III.
 ADR/RID-Labels 6.1.
 Classification code T4.
 Risk No. 60.
 Limited quantity 5 L.
 Tunnel code E

IMO

Proper shipping name Potassium fluoride solution
 UN No 3422.
 Class 6.1.
 Packing group III.
 ADR/RID-Labels 6.1.
 Limited quantity 5 l.
 EmS F-A, S-A.
 Marine Pollutant no

ICAO	Proper shipping name Potassium fluoride solution UN No 3422. Class 6.1. Packing group III. Packing instruction (passenger aircraft): 655 (60 L). Packing instruction (LQ): Y642 (2 L). Packing instruction (cargo aircraft): 663 (220 L).
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).
Potassium fluoride (CAS 7789-23-3)	
EU - Cosmetics (76/768/EEC) - Annex III Part 1 - Conditions of Use and Warnings Which Must Be Printed on the Label	Contains potassium fluoride. Children of 6 years and younger: Use a pea sized amount for supervised brushing to minimize swallowing. In case of intake of fluoride from other sources consult a dentist or doctor. {For any toothpaste containing 0.1%-0.15% fluoride unless it is already labelled as contra-indicated for children (e.g. for adult use only)}
EU - Cosmetics (1223/2009) - Annex III - Conditions of Use and Warnings	Contains potassium fluoride. For any toothpaste containing 0.1%-0.15% fluoride unless it is already labelled as contra-indicated for children (e.g. for adult use only) the following labelling is obligatory: Children of 6 years and younger: Use a pea sized amount for supervised brushing to minimize swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.
EU - REACH (1907/2006) - List of Registered Substances	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	H301: Toxic if swallowed. H302: Harmful if swallowed. H311: Toxic in contact with skin. H331: Toxic if inhaled. R20/21/22: Harmful by inhalation, in contact with skin and if

swallowed.

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

Training advice

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

Further information

Take notice of the directions of use. SZID [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.