

WTW Safety Data Sheet
According to EC Directives 91/155/EEC

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

Product name: **Electrolyte FCML 412**

Ord. No.: 205 247
Model: ZBK-FCML 412

Manufacturer:

WTW Wissenschaftlich-Technische Werkstätten GmbH, Dr.-Karl-Slevogt-Straße 1, D-82362 Weilheim, Germany
Tel.: +49(0) 881 183-0 Fax.: +49(0) 881 183-420

Emergency telephone:
(001)-703-527-3887

2. Composition/information on ingredients

Chemical characterization: Solution of anorg. and org. substances in water

Hazardous ingredients: Sodium hydroxide and Citric acid

Sodium hydroxide		Citric acid	
<i>Hazard symbols:</i>	corrosive (C)	<i>Hazard symbols:</i>	irritant (Xi)
<i>R-phrases:</i>	35	<i>R-phrases:</i>	36
<i>Content:</i>	< 0,5 %	<i>Content:</i>	< 2 %
<i>CAS-No.:</i>	1310-73-2	<i>CAS-No.:</i>	77-92-9
<i>EG-No.:</i>	215-185-5	<i>EG-No.:</i>	201-069-1

3. Hazards identification

No dangerous product

4. First aid measures

After inhalation: Fresh air

After skin contact: Wash off with plenty of water.
Remove contaminated clothing.

After eye contact: Rinse out with plenty of water with the eyelid held wide open.

After ingestion: Make injured person drink plenty of water, induce vomiting, summon doctor.

WTW Safety Data Sheet

Identification of the substance/preparation

Electrolyte FCML 412

5. Fire-fighting measures

<i>Suitable extinguishing media:</i>	Water, foam
<i>Unsuitable extinguishing media:</i>	Unknown
<i>Special risks:</i>	The following may develop in event of fire: bromine.
<i>Other information:</i>	Non-combustible.

6. Accidental release measures

<i>Personal-related precautionary measures:</i>	Do not inhale vapours or aerosols.
<i>Environmental-protection measures:</i>	Do not allow to enter sewerage system
<i>Procedures for cleaning/absorption:</i>	Take up and forward for disposal. Clean up affected area with water.

7. Handling and storage

<i>Handling:</i>	No further requirements
<i>Storage:</i>	Closed well and at room temperature (+15 to +25°C). Don't store at sun- or UV-light.

8. Exposure control/personal protection

<i>Specific control parameters:</i>	None
Personal protective equipment	
<i>Respiratory protection:</i>	Recommended when vapours/aerosols are generated.
<i>Eye protection:</i>	Recommended
<i>Hand protection:</i>	Recommended
<i>Industrial hygiene:</i>	Wash hands and face after working with solution. Change contaminated clothing.

WTW Safety Data Sheet

Identification of the substance/preparation

Electrolyte FCML 412

9. Physical and chemical properties

<i>Form:</i> liquid (gel)	<i>Colour:</i> colourless	<i>Odour:</i> odourless
<i>pH-value</i>	approx. 2.1 at 25°C	
<i>Melting temperature:</i>	approx. 0°C	
<i>Boiling temperature:</i>	approx. 100°C	
<i>Ignition temperature:</i>	not flammable	
<i>Flash point:</i>	not flammable	
<i>Explosion limite lower:</i>	not applicable	
<i>upper:</i>	not applicable	
<i>Density:</i>	approx. 1.05 g/cm ³	
<i>Solubility in water:</i>	in water soluble	
<i>Thermal decomposition:</i>	not available	

10. Stability and reactivity

<i>Conditions to be avoided:</i>	No information available
<i>Substances to be avoided:</i>	Acids, halogen-halogencompounds
<i>Hazardous decomposition products:</i>	No information available
<i>Further information:</i>	None

11. Toxicological information

<i>Acute toxicity:</i>	No information available
<i>Further toxicological information:</i>	After eye contact: Irritation possible After ingestion of large quantities: Tiredness, agitation, spasms possible.

12. Ecological information

<i>Ecotoxic effects:</i>	No ecological problems are to be expected when the product is handled and used with due care and attention.
--------------------------	---

WTW Safety Data Sheet

Identification of the substance/preparation

Electrolyte FCML 412

13. Disposal considerations

Products: There are no uniform regulations for the disposal of chemicals or residues. The disposal is regulated through corresponding regional laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

Packaging: Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, noncontaminated packaging may be treated like household waste or recycled.

14. Transport information

ADR/GGVSE:

IMDG/GGVSee:

ICAO/IATA:

Further information: Not subject to transport regulations.

15. Regulatory information

Labelling according to EC directives

Symbol: No hazardous product

R-phrases: /

S-phrases: 46 In case of ingestion drink plenty of water, induce vomiting, summon doctor, and show label.

German regulations

Water pollution class; WGK: 1 slightly polluting substance

Regulation on combustible liquids; VbF: Non combustible

Other regulations: None

16. Other information

Date of issue: 6.3.2007

Supersedes edition of First edition

Reason for alteration: First edition

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.