METTLER TOLEDO SAFETY DATA SHEET

according to the Globally Harmonized System

Electrolyte Friscolyt

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Electrolyte Friscolyt

Product code 52118041, 51343185, 51350076, 51350084

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

Use of the Substance/Mixture Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Company/Undertaking

Identification

Mettler-Toledo GmbH Im Langacher 44 CH-8606 Greifensee

Switzerland

Tel: +41 22 567 53 22 Fax: +41 22 567 53 23 Email: ph.lab.support@mt.com

1.4. Emergency telephone

number

(24-Hour-Number): GBK GmbH +49 6132 84463

Issuing date 13.04.2018

Version GHS 2

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The substance or mixture is not classified.

In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.

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

Section 16.

2.2. Label elements



Signal Word -

Hazard Statements None.

Precautionary statements None.

Supplemental information None.

Product identifier None.

2.3. Other hazards No hazards to be specially mentioned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture of (+)-tartaric acid - CAS 87-69-4.

Components		CLP Classification	Product identifier
Glycerine	40% - 80%		CAS-No.: 56-81-5 EC-No.: 200-289-5
Potassium chloride	5% - 15%	-	CAS-No.: 7447-40-7 EC-No.: 231-211-8
Deionised water	10% - 50%		CAS-No.: 7732-18-5 EC-No.: 231-791-2

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move to fresh air in case of accidental inhalation of vapours or

decomposition products. Consult a physician for severe cases.

Skin contact Wash off immediately with soap and plenty of water while removing

all contaminated clothes and shoes. If skin irritation persists, call a

physician.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. If eye

irritation persists, consult a specialist.

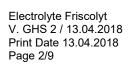
Ingestion Rinse mouth. Consult a physician for severe cases.

4.2. Most important symptoms and effects, both acute and

delayed

If you feel unwell, seek medical advice (show the label where

possible).





4.3. Indication of any immediate medical attention and special treatment needed

None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

carbon dioxide.

Extinguishing media which must not be used for safety reasons

None.

5.2. Special hazards arising from the substance or mixture

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating

compounds.

5.3. Advice for firefighters

Special protective equipment for

firefighters

Standard procedure for chemical fires. In the event of fire, wear

self-contained breathing apparatus. Wear protective suit.

Specific methodsWater mist may be used to cool closed containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency

personnel

Ensure adequate ventilation. Use personal protective equipment. Sweep up to prevent slipping hazard. Avoid contact with skin and

eyes. Do not breathe vapours/dust.

Advice for emergency

responders

Handle in accordance with good industrial hygiene and safety

practice. Use personal protective equipment. Sweep up to prevent

slipping hazard.

6.2. Environmental precautions Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable and closed

containers for disposal.

6.4. Reference to other sections See chapter 8 and 13.



SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated

place. Store in original container.

7.3. Specific end use(s) No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) No data is available on the product itself.

Glycerine (CAS 56-81-5)	
United Kingdom - Workplace	30 mg/m3 STEL (calculated, mist)
Exposure Limits (WELs) - STELs	
United Kingdom - Workplace	10 mg/m3 TWA (mist)
Exposure Limits (WELs) - TWAs	
U.S OSHA - Final PELs - Time	15 mg/m3 TWA (mist, total particulate)
Weighted Averages (TWAs)	5 mg/m3 TWA (mist, respirable fraction)
U.S OSHA - Vacated PELs -	10 mg/m3 TWA (mist, total particulate)
TWAs	5 mg/m3 TWA (mist, respirable fraction)

8.2. Exposure controls

Appropriate engineering controls Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection

No personal respiratory protective equipment normally required.

Hand protection

Gloves made of latex. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of

contact).

Eye protection

Safety glasses with side-shields conforming to EN166.

Skin and body protection

Long sleeved clothing.

Thermal hazards

No special measures required.

Environmental exposure controls Prevent product from entering surface water or sewage.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

AppearanceLiquid.ColourColourless.OdourNone.

Odour Threshold Not determined.

pH: ~6 [5 (100 g/l, 20°C) (CAS: 56-81-5)]

 Melting point/range:
 18 °C (CAS: 56-81-5)

 Boiling point/range:
 290 °C (CAS: 56-81-5)

 Flash point:
 191 °C (cc) (CAS: 56-81-5)

Evaporation Rate: Not determined. Flammability: Not determined.

Explosion limits: 2.6 - 11.3 Vol% (CAS: 56-81-5) **Vapour pressure:** 0.00121 mbar (40°C) (CAS: 56-81-5)

Vapor density:Not determined.Relative density:1.26 (CAS: 56-81-5)Water solubility:completely miscible

Partition coefficient (n- Log Pow: -1.76 (CAS: 56-81-5)

octanol/water):

Autoignition temperature: 400 °C (DIN 51794) (CAS: 56-81-5)

Decomposition temperature: > 290 °C (CAS: 56-81-5)

Viscosity: 1412 mPa*s (20°C) (CAS: 56-81-5)

Explosive properties: not hazardous

Oxidising properties: None

9.2. Other information

General Product Characteristics No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity No information available.

10.2. Chemical stability Hygroscopic. Stable under recommended storage conditions.

10.3. Possibility of hazardous

reactions

No information available.

10.4. Conditions to avoidTo avoid thermal decomposition, do not overheat. Vapour/air-

mixtures are explosive at intense warming.

10.5. Incompatible materials Halogenated compounds. Strong oxidizing agents. Peroxides.

Nitrous acid and other nitrosating agents.

10.6. Hazardous decomposition

products

None under normal use.



SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity No data is available on the product itself.

Glycerine (CAS 56-81-5)

Dermal LD50 Rabbit > 10 g/kg (NLM_CIP) Inhalation LC50 Rat > 570 mg/m3 1 h(NLM_CIP) Oral LD50 Rat = 12600 mg/kg (NLM CIP) Potassium chloride (CAS 7447-40-7) Oral LD50 Rat = 2600 mg/kg (NLM_CIP)

Deionised water (CAS 7732-18-5) Oral LD50 Rat > 90 mL/kg (FOOD JOURN)

Skin corrosion/irritation No skin irritation.

Serious eye damage/eye

irritation

No eye irritation.

Respiratory / Skin Sensitisation None.

Carcinogenicity No data available.

Germ cell mutagenicity No data available.

Reproductive toxicity No data available.

Specific target organ toxicity

(single exposure)

Inhalation of vapours may cause irritation of the respiratory system

in very susceptible persons.

Specific target organ toxicity

(repeated exposure)

No data available.

Aspiration hazard No data available.

No data available. **Human experience**

Information on likely routes of

exposure

dermal

Symptoms related to the physical, chemical and toxicological characteristics Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhoea.

Other information The product contains no substances which at their given

concentration, are considered to be hazardous to health.

SECTION 12: Ecological information

12.1. Toxicity No data is available on the product itself.

Glycerine (CAS 56-81-5)

EU - Ecolabel (66/2010) -Detergent Ingredient Database -

Anaerobic Degradation

Biodegradable under anaerobic conditions.

Electrolyte Friscolyt V. GHS 2 / 13.04.2018 Print Date 13.04.2018 Page 6/9



EU - Ecolabel (66/2010) -Readily biodegradable according to OECD guidelines.

Detergent Ingredient Database -

Aerobic Degradation

Ecotoxicity - Freshwater Fish -LC50 96 h Oncorhynchus mykiss 51 - 57 mL/L [static] (EPA)

Acute Toxicity Data

Potassium chloride (CAS 7447-40-7)

Ecotoxicity - Freshwater Fish -LC50 96 h Lepomis macrochirus 1060 mg/L [static] (EPA)

Acute Toxicity Data LC50 96 h Pimephales promelas 750 - 1020 mg/L [static] (EPA)

Ecotoxicity - Water Flea - Acute EC50 48 h Daphnia magna 825 mg/L (IUCLID)

Toxicity Data EC50 48 h Daphnia magna 83 mg/L [Static] (EPA)

Ecotoxicity - Freshwater Algae -

EC50 72 h Desmodesmus subspicatus 2500 mg/L (IUCLID)

Acute Toxicity Data

12.2. Persistence and CAS: 56-81-5 Readily biodegradable (63 % / 14 day(s)). OECD

Test Guideline 301 C. degradability

12.3. Bioaccumulative potential CAS: 56-81-5 Due to the distribution coefficient n-octanol/water.

accumulation in organisms is possible.

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 No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose of as unused product.

SECTION 14: Transport information

ADR/RID Not regulated.

IMDG Not regulated.

IATA Not regulated.

Further Information Not classified as dangerous in the meaning of transport regulations.



SECTION 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, the product

does not need to be classified nor labelled.

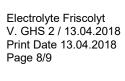
Glycerine (CAS 56-81-5)			
EU - REACH (1907/2006) - List of	Present		
Registered Substances			
Inventory - United States - Section	Present (ACTIVE)		
8(b) Inventory (TSCA)			
U.S FIFRA - Listing of Pesticide	Section number 180,950		
Chemicals (40 CFR 180)			
U.S FIFRA - Inert Ingredients	Glycerin		
Eligible for FIFRA Section 25(b)			
Pesticide Products			
U.S TSCA (Toxic Substances	Chemical of low current interest		
Control Act) - Section 8(a) -			
Chemical Data Reporting Rule -			
Partially Exempt Substances			
U.S California - Occupational	5 mg/m3 PEL (mist, respirable fraction, listed under Particulates not		
Exposure Limits - PELs	otherwise regulated)		
	10 mg/m3 PEL (mist, total dust, listed under Particulates not		
	otherwise regulated)		
Potassium chloride (CAS 7447-40-7)			
TEDX (The Endocrine Disruption	Present		
Exchange) - Potential Endocrine			
Disruptors			
EU - REACH (1907/2006) - List of	Present		
Registered Substances			
EU - REACH (1907/2006) - List of	Present ([231-211-8])		
Registered Intermediates			
Inventory - United States - Section	Present (ACTIVE)		
8(b) Inventory (TSCA)			
U.S FIFRA - Listing of Pesticide	Section number 180.950		
Chemicals (40 CFR 180)			
U.S FIFRA - Inert Ingredients	Potassium chloride		
Eligible for FIFRA Section 25(b)			
Pesticide Products			
Deionised water (CAS 7732-18-5)	D ((AOTI)(E)		
Inventory - United States - Section	Present (ACTIVE)		
8(b) Inventory (TSCA)	Description to the form of the first terms of the f		
U.S TSCA (Toxic Substances	Present (listed under Certain forms of natural gas and water)		
Control Act) - Section 8(a) -			
Chemical Data Reporting Rule -			
Fully Exempt Substances			

15.2. Chemical safety assessment

Not required.

SECTION 16: Other information

Revision Note Safety datasheet sections which have been updated: 3.





Key or legend to abbreviations and acronyms

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

Key literature references and sources for data

Information taken from reference works and the literature. Sources of key data used to compile the Safety Data Sheet: BGI Gestis.

Classification procedure

Calculation method.

Full text of phrases referred to under sections 2 and 3

None.

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.

