

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

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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

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry extinguishing agent or 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 methods Water 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 Exposure Limits (WELs) - STELs	30 mg/m ³ STEL (calculated, mist)
United Kingdom - Workplace Exposure Limits (WELs) - TWAs	10 mg/m ³ TWA (mist)
U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)	15 mg/m ³ TWA (mist, total particulate) 5 mg/m ³ TWA (mist, respirable fraction)
U.S. - OSHA - Vacated PELs - TWAs	10 mg/m ³ TWA (mist, total particulate) 5 mg/m ³ 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

Appearance	Liquid.
Colour	Colourless.
Odour	None.
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-octanol/water):	Log Pow: -1.76 (CAS: 56-81-5)
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 avoid	To 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/m ³ 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.
Human experience	No data available.
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.

EU - Ecolabel (66/2010) - Detergent Ingredient Database - Aerobic Degradation	Readily biodegradable according to OECD guidelines.
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	LC50 96 h Oncorhynchus mykiss 51 - 57 mL/L [static] (EPA)
Potassium chloride (CAS 7447-40-7)	
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	LC50 96 h Lepomis macrochirus 1060 mg/L [static] (EPA) LC50 96 h Pimephales promelas 750 - 1020 mg/L [static] (EPA)
Ecotoxicity - Water Flea - Acute Toxicity Data	EC50 48 h Daphnia magna 825 mg/L (IUCLID) EC50 48 h Daphnia magna 83 mg/L [Static] (EPA)
Ecotoxicity - Freshwater Algae - Acute Toxicity Data	EC50 72 h Desmodesmus subspicatus 2500 mg/L (IUCLID)
12.2. Persistence and degradability	CAS: 56-81-5 Readily biodegradable (63 % / 14 day(s)). OECD Test Guideline 301 C.
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 Registered Substances	Present
Inventory - United States - Section 8(b) Inventory (TSCA)	Present (ACTIVE)
U.S. - FIFRA - Listing of Pesticide Chemicals (40 CFR 180)	Section number 180.950
U.S. - FIFRA - Inert Ingredients Eligible for FIFRA Section 25(b) Pesticide Products	Glycerin
U.S. - TSCA (Toxic Substances Control Act) - Section 8(a) - Chemical Data Reporting Rule - Partially Exempt Substances	Chemical of low current interest
U.S. - California - Occupational Exposure Limits - PELs	5 mg/m ³ PEL (mist, respirable fraction, listed under Particulates not otherwise regulated) 10 mg/m ³ PEL (mist, total dust, listed under Particulates not otherwise regulated)
Potassium chloride (CAS 7447-40-7)	
TEDX (The Endocrine Disruption Exchange) - Potential Endocrine Disruptors	Present
EU - REACH (1907/2006) - List of Registered Substances	Present
EU - REACH (1907/2006) - List of Registered Intermediates	Present ([231-211-8])
Inventory - United States - Section 8(b) Inventory (TSCA)	Present (ACTIVE)
U.S. - FIFRA - Listing of Pesticide Chemicals (40 CFR 180)	Section number 180.950
U.S. - FIFRA - Inert Ingredients Eligible for FIFRA Section 25(b) Pesticide Products	Potassium chloride
Deionised water (CAS 7732-18-5)	
Inventory - United States - Section 8(b) Inventory (TSCA)	Present (ACTIVE)
U.S. - TSCA (Toxic Substances Control Act) - Section 8(a) - Chemical Data Reporting Rule - Fully Exempt Substances	Present (listed under Certain forms of natural gas and water)

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.

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