

## SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

### Electrolyte 0.5M DIPA-HCl-ISA

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#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product code** 30064081, 30066674

**Synonyms** None.

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

**Use of the Substance/Preparation** Laboratory chemicals

##### 1.3. Details of the supplier of the safety data sheet

**Company/Undertaking Identification** Mettler-Toledo AG  
ANALYTICAL  
Sonnenbergstrasse 74  
CH-8603 Schwerzenbach  
Schweiz  
Tel: +41-44-806-77-11  
Fax: +41-44-806-73-50  
Email: [ph.lab.support@mt.com](mailto:ph.lab.support@mt.com)

**1.4. Emergency telephone number** +41-44-251 51 51 (Tox Center)

**Revision Date** 10.03.2014

**Version** GHS 2

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#### 2. Hazards identification

##### 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Cat. 2, H315  
Serious eye damage/eye irritation, Cat. 1, H318

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

Xi; R38  
Xi; R41

**Additional information**

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

**2.2. Label elements**



**Signal Word**

Danger

**Hazard Statements**

H315: Causes skin irritation.  
H318: Causes serious eye damage.

**Precautionary statements**

P280c: Wear protective gloves/ eye protection/ face protection.  
P302+P352: IF ON SKIN: Wash with plenty of water/....  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/ attention.

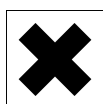
**Additional advice**

None.

**GHS product identifier**

Diisopropylamine, CAS-No. 108-18-9, EC-No. 203-558-5  
Hydrochloric acid, EC-No. 231-595-7

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



Xi - Irritant.

**R-phrases(s)**

R38: Irritating to skin.  
R41: Risk of serious damage to eyes.

**S-phrases(s)**

S24/25: Avoid contact with skin and eyes.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Hazardous component(s) which must be listed on the label**

Deionised water, CAS-No. 7732-18-5, EC-No. 231-791-2  
Diisopropylamine, CAS-No. 108-18-9, EC-No. 203-558-5

**2.3. Other hazards**

No information available.

### 3. Composition/information on ingredients

Chemical characterization

Electrolyte solution

Components		CLP Classification	DSD/DPD Classification	CAS	REACH No.
Diisopropylamine	4 - 5%	Acute Tox. 4 H332, Acute Tox. 4 H302, Skin Corr. 1B H314, Flam. Liq. 2 H225 [SSEIn3: C ≥ 5 %]	F, C; R-11-20/22-34 [C ≥ 25 % \ C; R-20/22-34 ! 10 % ≤ C < 25 % \ C; R-34 ! 5 % ≤ C < 10 % \ Xi; R-36/37/38]	108-18-9	203-558-5
Hydrochloric acid	0.5 - 1%	Skin Corr. 1B H314, STOT SE 3 H335 [CSk1B: C ≥ 25 % \ CSk2: 10 % ≤ C < 25 % \ CEy2: 10 % ≤ C < 25 % \ SSEIn3: C ≥ 10 %], Notes B	C; R-34-37, Notes B [C ≥ 25 % \ C; R-34-37 ! 10 % ≤ C < 25 % \ Xi; R-36/37/38]		231-595-7

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 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 immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an ophthalmologist.

**Ingestion**

Rinse mouth. Drink 1 or 2 glasses of water. If swallowed, seek medical advice immediately and show this container or label.

**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**

If ingested, irrigate the stomach.

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## 5. Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Use dry chemical, CO<sub>2</sub>, water spray or alcohol foam.

**Extinguishing media which must not be used for safety reasons** None.

**5.2. Special hazards arising from the substance or mixture** The product is not flammable. 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.

### 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.

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## 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.

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## 7. Handling and storage

**7.1. Precautions for safe handling** Wear personal protective equipment. Avoid contact with skin and eyes.

**7.2. Conditions for safe storage, including any incompatibilities** Store in original container. Store in a place accessible by authorized persons only.

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

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## 8. Exposure controls/personal protection

### 8.1. Control parameters

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

#### **Diisopropylamine (CAS 108-18-9)**

Ireland - Occupational Exposure Limits - TWAs	5 ppm TWA 20 mg/m <sup>3</sup> TWA
United Kingdom - Workplace Exposure Limits (WELs) - STELs	15 ppm STEL (calculated) 63 mg/m <sup>3</sup> STEL (calculated)
United Kingdom - Workplace Exposure Limits (WELs) - TWAs	5 ppm TWA 21 mg/m <sup>3</sup> TWA

### 8.2. Exposure controls

**Occupational exposure controls** Avoid contact with skin, eyes and clothing.

#### **Personal protection equipment**

**Respiratory protection** In case of good ventilation no personal respiratory protective equipment 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. Break through time: > 4 h.

**Eye protection** Safety glasses with side-shields conforming to EN166.

**Skin and body protection** Long sleeved clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Thermal hazards** No special measures required.

**Environmental exposure controls** No special measures required.

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## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Form</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Stinging.
<b>Odour Threshold</b>	No information available.
<b>pH:</b>	11.4
<b>Melting point/range:</b>	No information available.
<b>Boiling point/range:</b>	~ 100°C
<b>Flash point:</b>	No information available.
<b>Evaporation Rate:</b>	No information available.
<b>Flammability:</b>	No information available.
<b>Explosion limits:</b>	No information available.

<b>Vapour pressure:</b>	No information available.
<b>Vapor density:</b>	No information available.
<b>Relative density:</b>	No information available.
<b>Water solubility:</b>	completely miscible
<b>Partition coefficient (n-octanol/water):</b>	No information available.
<b>Autoignition temperature:</b>	No information available.
<b>Decomposition temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.
<b>Combustion/explosion hazards:</b>	not hazardous
<b>Oxidizing properties:</b>	None

## 9.2. Other information

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## 10. Stability and reactivity

<b>10.1. Reactivity</b>	No information available.
<b>10.2. Chemical stability</b>	Stable at normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No information available.
<b>10.4. Conditions to avoid</b>	Not required.
<b>10.5. Incompatible materials</b>	Incompatible with acids.
<b>10.6. Hazardous decomposition products</b>	None under normal use.

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## 11. Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	No data is available on the product itself. <b>Diisopropylamine (CAS 108-18-9)</b> Dermal LD50 Rabbit > 10 g/kg (IUCLID) Inhalation LC50 Rat = 4800 mg/m <sup>3</sup> 2 h (NLM_CIP) Oral LD50 Rat = 420 mg/kg (NLM_CIP)
<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes.
<b>Respiratory / Skin Sensitisation</b>	None.
<b>Carcinogenicity</b>	No data available.
<b>Germ cell mutagenicity</b>	No data available.

<b>Reproductive toxicity</b>	No data available.
<b>Specific target organ toxicity (single exposure)</b>	No data available.
<b>Specific target organ toxicity (repeated exposure)</b>	No data available.
<b>Aspiration hazard</b>	No data available.
<b>Human experience</b>	No data available.
<b>Information on likely routes of exposure</b>	dermal
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	May cause eye/skin irritation.
<b>Other information</b>	The product contains no substances which at their given concentration, are considered to be hazardous to health.

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## 12. Ecological information

<b>12.1. Toxicity</b>	No data is available on the product itself.
<b>Diisopropylamine (CAS 108-18-9)</b>	
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	96 h LC50 Brachydanio rerio: 150 - 223 mg/L [semi-static] 96 h LC50 Oryzias latipes: 420 - 560 mg/L [semi-static] 96 h LC50 Oncorhynchus mykiss: 37 mg/L 96 h LC50 Poecilia reticulata: 1000 mg/L [semi-static]
Ecotoxicity - Freshwater Algae - Acute Toxicity Data	96 h EC50 Pseudokirchneriella subcapitata: 20 mg/L 96 h EC50 Pseudokirchneriella subcapitata: 20 mg/L [static]
<b>12.2. Persistence and degradability</b>	No data available.
<b>12.3. Bioaccumulative potential</b>	Bioaccumulation is unlikely.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	No information available.
<b>12.6. Other adverse effects</b>	No information available.

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## 13. Disposal considerations

### 13.1. Waste treatment methods

<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Dispose of in accordance with the European Directives on waste and hazardous waste.
<b>Contaminated packaging</b>	Dispose of as unused product.

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## 14. Transport information

<b>ADR/RID</b>	Not required.
<b>IMDG</b>	Not required.
<b>IATA</b>	Not required.
<b>Further Information</b>	Not classified as dangerous in the meaning of transport regulations.

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## 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Regulatory Information** The product is classified and labelled according to Regulation (EC) No. 1272/2008 (GHS/CLP).

**Diisopropylamine (CAS 108-18-9)**  
 EU - Control of Exports of Dual Use Items (428/2009) 1C350  
 EU - REACH (1907/2006) - List of Registered Substances Present

**15.2. Chemical safety assessment** Not required.

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## 16. Other information

<b>Revision Note</b>	Safety datasheet sections which have been updated: 1-16.
<b>Key or legend to abbreviations and acronyms</b>	None.
<b>Key literature references and sources for data</b>	Information taken from reference works and the literature. Sources of key data used to compile the Safety Data Sheet: IUCLID.
<b>Classification procedure</b>	Calculation method.



**Full text of phrases referred to under sections 2 and 3**

H225: Highly flammable liquid and vapour.  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.

R11: Highly flammable.  
R20/22: Harmful by inhalation and if swallowed.  
R34: Causes burns.  
R38: Irritating to skin.  
R41: Risk of serious damage to eyes.

**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 and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.