

Address	Im Hackacker 15, CH-8902 Urdorf, Switzerland
Mail address	P.O. Box, CH-8902 Urdorf, Switzerland
Phone	+41-44-729 62 11
Fax	+41-44-729 66 36
Bank	Credit Suisse, 8070 Zurich, Clearing 4835
Account no.	370501-21-90 CHF/IBAN CH71 0483 5037 0501 2109 0

[www.mt.com/pro](http://www.mt.com/pro)

## SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

### Buffer Solution pH 11.00

---

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

##### 1.1. Product identifier

**Product code** 51340063, 51319018, 51319019**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

<b>Company/Undertaking Identification</b>	Mettler-Toledo AG Process Analytics Im Hackacker 15 CH-8902 Urdorf Schweiz Tel: +41-44-729 62 11 Fax: +41-44-729 66 36 Email: process.hotline@mt.com
---	---

**1.4. Emergency telephone number** +1-800-535 50 53 (Info Trac, 24 hrs)**Revision Date** 27.05.2013**Version** 6

---

## 2. Hazards identification

Causes skin irritation. Causes serious eye irritation

### 2.1. Classification of the substance or mixture

NFPA Ratings (Scale 0-4):

HEALTH=1

FLAMMABILITY=0

REACTIVITY=0

SPECIAL=0

HMIS Ratings (Scale: 0=Minimal 1=Slight 2=Moderate

3=Serious 4=Severe):

HEALTH=1

FLAMMABILITY=0

REACTIVITY=0

PROT. EQUIPMENT=B (Safety Glasses, Gloves)

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

Skin corrosion/irritation, Cat. 2, H315

Serious eye damage/eye irritation, Cat. 2, H319

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

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

None.

**Additional information**

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

### 2.2. Label elements



**Signal Word**

WARNING!

**Hazard Statements**

H315: Causes skin irritation.

H319: Causes serious eye irritation.

**Precautionary statements**

P264a: Wash skin thoroughly after handling.

P280c: Wear protective gloves/ eye protection/ face protection.

P302+P352: IF ON SKIN: Wash with plenty of soap and 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.

P332+P313: If skin irritation occurs: Get medical advice/ attention.

P337+P313: If eye irritation persists: Get medical advice/ attention.

**Additional advice**

None.

**GHS product identifier**

Diisopropylamine, CAS-No. 108-18-9

Hydrochloric acid

Buffer Solution pH 11.00

V. 6 / 27.05.2013

Print Date 05.07.2013

Page 2/9

**METTLER TOLEDO**



### 2.3. Other hazards

No information available.

---

## 3. Composition/information on ingredients

### Chemical characterization

Buffer solution.

Components		CLP Classification	DSD/DPD Classification	CAS	REACH No.
Deionised water	95% - 99%				
Diisopropylamine	1% - 2.5%	Acute Tox. 4 H332, Acute Tox. 4 H302, Skin Corr. 1B H314, Flam. Liq. 2 H225 [STOT SE 3 H335: C ≥ 5 %]	F,C; R-11-20/22-34	108-18-9	
Hydrochloric acid	0.1% - 0.5%	Skin Corr. 1B H314, STOT SE 3 H335 [Skin Corr. 1B H314: C ≥ 25 % ; Skin Irrit. 2 H315: 10 % ≤ C < 25 % ; Eye Irrit. 2 H319: 10 % ≤ C < 25 % ; STOT SE 3 H335: C ≥ 10 %]	C; R-34-37		

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 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. 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.

Buffer Solution pH 11.00

---

## 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.

---

## 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.

**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.

---

## 7. Handling and storage

**7.1. Precautions for safe handling** Wear personal protective equipment. Avoid contact with skin and eyes. Practice care and caution to avoid skin contact and inhalation of vapours or mists if generated.

**7.2. Conditions for safe storage, including any incompatibilities** Keep container tightly closed in a cool, well-ventilated place. Store in original container. Store in a place accessible by authorized persons only.

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

Buffer Solution pH 11.00

---

## 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)**

U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)	5 ppm TWA 20 mg/m <sup>3</sup> TWA
U.S. - OSHA - Vacated PELs - TWAs	5 ppm TWA 20 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 insufficient ventilation, wear suitable respiratory equipment. Respirator with AP2 filter.

**Hand protection** The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Hydrofluoric acid-resistant and solvent-resistant gloves (gloves made of VITON\*). Break through time: > 8 h.

**Eye protection** Safety glasses with side-shields conforming to EN 166.

**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.

---

## 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>	Mild.
<b>Odour Threshold</b>	No information available.
<b>pH:</b>	11
<b>Melting point/range:</b>	No information available.
<b>Boiling point/range:</b>	No information available.
<b>Flash point:</b>	No information available.

Buffer Solution pH 11.00

<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

---

## 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>	None.
<b>10.6. Hazardous decomposition products</b>	None under normal use.

---

## 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 10000 mg/kg Inhalation LC50 Rat 5.3 mg/L 4 h Oral LD50 Rat 420 mg/kg
<b>Skin corrosion/irritation</b>	Mild skin irritation.
<b>Serious eye damage/eye irritation</b>	Slight eye irritation.
<b>Respiratory / Skin Sensitisation</b>	None.
<b>Carcinogenicity</b>	No data available.

Buffer Solution pH 11.00

<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.

---

## 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 - Water Flea - Acute Toxicity Data	24 h EC50 Daphnia magna: 25.8 mg/L
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>	No data available.
<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.

Buffer Solution pH 11.00

---

## 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.

---

## 14. Transport information

<b>ADR/RID</b>	Not required.
<b>IMO</b>	Not required.
<b>ICAO</b>	Not required.
<b>Further Information</b>	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

<b>Regulatory Information</b>	NFPA Ratings (Scale 0-4): HEALTH=1 FLAMMABILITY=0 REACTIVITY=0 SPECIAL=0 HMIS Ratings (Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe): HEALTH=1 FLAMMABILITY=0 REACTIVITY=0 PROT. EQUIPMENT=B (Safety Glasses, Gloves)
-------------------------------	---

<b>15.2. Chemical safety assessment</b>	Not required.
---	---------------

---

## 16. Other information

<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>	Bridging principle "Dilution". Calculation method.

Buffer Solution pH 11.00



**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.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.

R11: Highly flammable.  
R20/22: Harmful by inhalation and if swallowed.  
R34: Causes burns.  
R36/38: Irritating to eyes and skin.  
R37: Irritating to respiratory system.

**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.