## SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

## Buffer Solution pH 4.01

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

| 1.1. Product identifier |
| :--- |
| Product code |
| Synonyms |$\quad 51350004,51350018,51350032,51350042,51302069$

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the Laboratory chemicals Substance/Preparation

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

| Company/Undertaking Identification | Mettler-Toledo AG <br> ANALYTICAL <br> Sonnenbergstrasse 74 <br> CH-8603 Schwerzenbach <br> Schweiz <br> Tel: +41-44-806-77-11 <br> Fax: +41-44-806-73-50 <br> Email: ph.lab.support@mt.com |
| :---: | :---: |
| 1.4. Emergency telephone number | +1-800-535 5053 (Info Trac, 24 hrs) |
| Revision Date | 27.05.2013 |
| Version | 5 |

## 2. Hazards identification

None.

### 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=A (Safety Glasses)
```

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

Classification according to EU None.
Directives 67/548/EEC or
1999/45/EC
Additional information For the full text of the phrases mentioned in this Section, see Section 16.
2.2. Label elements
none

### 2.3. Other hazards

No hazards to be especially mentioned.

## 3. Composition/information on ingredients

Chemical characterization Buffer solution.

| Components |  | GHS Classification |  | CAS | REACH No. |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Deionised water | $95 \%-$ |  |  |  |  |
|  | $99 \%$ |  |  |  |  |

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 <br> decomposition products. Consult a physician for severe cases. |
| :--- | :--- |
| Skin contact | Wash off immediately with soap and plenty of water removing all <br> contaminated clothes and shoes. If skin irritation persists, call a <br> physician. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. If eye <br> irritation persists, consult a specialist. |
| Ingestion | Rinse mouth. Consult a physician for severe cases. |
| 4.2. Most important symptoms <br> and effects, both acute and <br> delayed | If you feel unwell, seek medical advice (show the label where <br> possible). |
| 4.3. Indication of any immediate <br> medical attention and special <br> treatment needed | None known. |

## 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media
Extinguishing media which must not be used for safety reasons
5.2. Special hazards arising from the substance or mixture

Use dry chemical, CO2, water spray or alcohol foam.
None.

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

Specific methods

Standard procedure for chemical fires. In the event of fire, wear self contained breathing apparatus. Wear protective suit.

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 Ensure adequate ventilation. Use personal protective equipment. personnel

Advice for emergency responders

Sweep up to prevent slipping hazard. Avoid contact with skin and eyes. Do not breathe vapours/dust.

Handle in accordance with good industrial hygiene and safety practice.

### 6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up
6.4. Reference to other sections

Do not flush into surface water or sanitary sewer system.
Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.

See chapter 8 and 13.

## 7. Handling and storage

7.1. Precautions for safe Wear personal protective equipment. Avoid contact with skin and handling eyes.
7.2. Conditions for safe storage, including any incompatibilities
7.3. Specific end use(s)

No information available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

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

### 8.2. Exposure controls

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

## Personal protection equipment

Respiratory protection

Hand protection

Eye protection
In case of good ventilation no personal respiratory protective equipment required.

The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Solvent-resistant gloves (butylrubber).

Safety glasses with side-shields conforming to EN 166.

| Skin and body protection | Long sleeved clothing. |
| :--- | :--- |
| Thermal hazards | No special measures required. |
| Environmental exposure controls |  |

## 9. Physical and chemical properties

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

| Form | Liquid. |
| :---: | :---: |
| Colour | Red. |
| Odour | None. |
| Odour Threshold | No information available. |
| pH: | 4 |
| Melting point/range: | No information available. |
| Boiling point/range: | No information available. |
| Flash point: | No information available. |
| Evaporation Rate: | No information available. |
| Flammability: | No information available. |
| Explosion limits: | No information available. |
| Vapour pressure: | No information available. |
| Vapor density: | No information available. |
| Relative density: | No information available. |
| Water solubility: | completely miscible |
| Partition coefficient ( n octanol/water): | No information available. |
| Autoignition temperature: | No information available. |
| Decomposition temperature: | No information available. |
| Viscosity: | No information available. |
| Combustion/explosion hazards: | not hazardous |
| Oxidizing properties: | None |

9.2. Other information

## 10. Stability and reactivity

### 10.1. Reactivity

10.2. Chemical stability
10.3. Possibility of hazardous reactions
10.4. Conditions to avoid
10.5. Incompatible materials

No information available.

Stable at normal conditions.
No information available.

Not required.
None.

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10.6. Hazardous decomposition products

## 11. Toxicological information

### 11.1. Information on toxicological effects

| Acute toxicity | No data is available on the product itself. |
| :--- | :--- |
| Skin corrosion/irritation | No skin irritation. |
| Serious eye damage/eye <br> irritation <br> Respiratory / Skin Sensitisation | No eye irritation. |
| Carcinogenicity | No data available. |
| Germ cell mutagenicity | No data available. |
| Reproductive toxicity | No data available. |
| Specific target organ toxicity <br> (single exposure) | No data available. |
| Specific target organ toxicity <br> (repeated exposure) | No data available. |
| Aspiration hazard | No data available. |
| Human experience | No data available. |
| Information on likely routes of <br> exposure <br> Other information | dermal |

## 12. Ecological information

### 12.1. Toxicity

12.2. Persistence and degradability

### 12.3. Bioaccumulative potential

### 12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

Buffer Solution pH 4.01

No data is available on the product itself.
Expected to be biodegradable.

Bioaccumulation is unlikely.
No data available.
This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
12.6. Other adverse effects No information available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Waste from residues / unused Dispose of in accordance with local regulations.
products
Contaminated packaging Dispose of as unused product.

## 14. Transport information

| ADR/RID | Not required. |
| :--- | :--- |
| IMO | Not required. |
| ICAO | Not required. |
| Further Information | 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

## Regulatory Information

### 15.2. Chemical safety assessment

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=A (Safety Glasses)
In accordance with Regulation (EC) No. 1272/2008 (GHS/CLP), the product does not need to be classified nor labelled.

Not required.

## 16. Other information

Key or legend to abbreviations and acronyms

Key literature references and sources for data

## Classification procedure

Full text of phrases referred to under sections 2 and 3

Disclaimer

None.

Information taken from reference works and the literature.

Calculation method.

None.

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.

