METTLER TOLEDO SAFETY DATA SHEET

according to the Globally Harmonized System

Buffer solution pH 11.00

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

1.1. Product identifier

Product name	Buffer solution pH 11.00
Synonyms	Buffer solution pH 11.00 (9867)
Product code	52118026, 51350012, 51350026, 30111135

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	30.11.2017
Version	GHS 2

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008	Skin corrosion/irritation, Cat. 2, H315 Serious eye damage/eye irritation, Cat. 2, H319
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 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.

Supplemental information None.

Product identifier Diisopropylamine, CAS-No. 108-18-9, EC-No. 203-558-5

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Buffer solution.

Components		CLP Classification	Product identifier
Deionised water	95% - 99%		CAS-No.: 7732-18-5 EC-No.: 231-791-2
Diisopropylamine	1% - 2.5%	Acute Tox. 4 H332, Acute Tox. 4 H302, Skin Corr. 1B H314, Flam. Liq. 2 H225 [SSEIn3: C ≥ 5 %]	CAS-No.: 108-18-9 EC-No.: 203-558-5 Index-No: 612-129-00-5

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. 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.

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	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.

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	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 containers 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.

SECTION 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)	
United Kingdom - Workplace Exposure Limits (WELs) - STELs	15 ppm STEL (calculated) 63 mg/m3 STEL (calculated)
United Kingdom - Workplace Exposure Limits (WELs) - TWAs	5 ppm TWA 21 mg/m3 TWA
U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)	5 ppm TWA 20 mg/m3 TWA
U.S. - OSHA - Vacated PELs - TWAs	5 ppm TWA 20 mg/m3 TWA

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 Nitril. 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. 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. 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Mild.
Odour Threshold	Not determined.
pH:	11
Melting point/range:	Not determined.
Boiling point/range:	Not determined.
Flash point:	Not determined.
Evaporation Rate:	Not determined.
Flammability:	Not determined.
Explosion limits:	Not determined.
Vapour pressure:	Not determined.
Vapor density:	Not determined.
Relative density:	Not determined.
Water solubility:	completely miscible
Partition coefficient (n-octanol/water):	Not determined.
Autoignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Not determined.
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	Stable at normal conditions.
10.3. Possibility of hazardous reactions	No information available.

10.4. Conditions to avoid	Not required.
10.5. Incompatible materials	None.
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. **Deionised water (CAS 7732-18-5)** Oral LD50 Rat > 90 mL/kg (FOOD_JOURN) **Diisopropylamine (CAS 108-18-9)** Dermal LD50 Rabbit = 2000 mg/kg (OECD_SIDS) Inhalation LC50 Rat = 4800 mg/m3 2 h(NLM_CIP) Oral LD50 Rat = 770 mg/kg (JAPAN_GHS)
Skin corrosion/irritation	Mild skin irritation.
Serious eye damage/eye irritation	Slight 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)	No data available.
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	May cause eye/skin irritation.
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.
Diisopropylamine (CAS 108-18-9)	
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	LC50 96 h Brachydanio rerio 150 - 223 mg/L [semi-static] (IUCLID) LC50 96 h Oryzias latipes 420 - 560 mg/L [semi-static] (EPA) LC50 96 h Oncorhynchus mykiss 37 mg/L (EPA) LC50 96 h Poecilia reticulata 1000 mg/L [semi-static] (EPA)
Ecotoxicity - Freshwater Algae - Acute Toxicity Data	EC50 96 h Pseudokirchneriella subcapitata 20 mg/L (IUCLID) EC50 96 h Pseudokirchneriella subcapitata 20 mg/L [static] (EPA)
12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	No data available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No information available.
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. Dispose of in accordance with the European Directives on waste and hazardous waste.
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 The product is classified and labelled according to Regulation (EC) No. 1272/2008.

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)
Diisopropylamine (CAS 108-18-9)	
EU - Control of Exports of Dual Use Items (428/2009)	1C350.48
EU - REACH (1907/2006) - List of Registered Substances	Present
Inventory - United States - Section 8(b) Inventory (TSCA)	Present (ACTIVE)
U.S. - California - Occupational Exposure Limits - PELs	5 ppm PEL 20 mg/m3 PEL
U.S. - California - Occupational Exposure Limits - Skin Notations	material may be absorbed through the skin, eyes or mucous membrane

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: IUCLID.

Classification procedure Bridging principle"Dilution". 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.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.

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.