

## Safety Data Sheet

# Concentrated buffer pH 9

Version: 2  
 Version date: 04/05/2023  
 Language: EN  
 According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2020/878)

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Trade name/designation** : Concentrated buffer pH 9.  
**Article No (user)** : P01700113.  
**UFI** : 3200-T0VQ-700A-TW40

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

**Relevant identified uses** : Laboratory chemicals.

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

**Supplier** : **Name:** Manumasure  
**Street:** 8 avenue du docteur Schweitzer  
**Postal code/City:** 69330 Meyzieu  
**Country:** France  
**Telephone:** 04 37 45 05 68  
**E-mail:** qualite@manumasure.fr

### 1.4. Emergency Telephone Number

#### United Kingdom:

In England and Wales: dial 111 ( NHS 111), In Scotland: dial 111 (NHS 24), In Northern Ireland: Contact your local GP or pharmacist during normal hours. During GP Out-of-Hours ([www.gpoutofhours.hscni.net/](http://www.gpoutofhours.hscni.net/)): Belfast HSC Trust, (North & West) 028 9074 4447, (South & East) 028 9079 6220 South Eastern HSC Trust, (North Down & Ards) 028 9182 2344, (Lisburn & Downpatrick) 028 9260 2204, Dalriada Urgent Care (Northern Trust area) 028 2566 3500, Southern HSC Trust 028 3839 9201, Western Urgent Care 028 7186 5195.

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

#### Hazards identification:

H290 Met. Corr. 1 May be corrosive to metals.  
 H360 Repr. 1B May damage fertility or the unborn child.

### 2.2. Label elements

Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

#### Labelling

#### Hazard pictograms



#### Signal word

Danger

#### Hazard Statements

H290 May be corrosive to metals.  
 H360 May damage fertility or the unborn child.

#### Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.

#### Precautionary Statements - Prevention

P201 Obtain special instructions before use.  
 P234 Keep only in original packaging.

#### Precautionary Statements - Response

P308+P313 IF exposed or concerned: Get medical advice/attention.

#### Precautionary Statements - Storage

P405 Store locked up.

**Precautionary Statements - Disposal**

P501 Dispose of contents and container in accordance with local regulations.

**Contains**

Boric acid

**2.3. Other hazards**

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

In accordance with the product knowledge, no nanomaterials have been identified.

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:

Substance	Concentration (%)	Specific concentration limits	Classification
<b>water</b>			
CAS N°	7732-18-5	90.0% <C≤ 100.0%	
EC N°	231-791-2		
IDX N°			
<b>Boric acid</b>			
CAS N°	10043-35-3	C< 5.5%	H290 Met. Corr. 1
EC N°	233-139-2		H360 Repr. 1B
IDX N°	005-007-00-2		
REACH N°	01-2119486683-25-xxxx		
<b>potassium chloride</b>			
CAS N°	7447-40-7	1.0% ≤C≤ 5.0%	
EC N°	231-211-8		
IDX N°			
REACH N°	01-2119539416-36-xxxx		
<b>sodium hydroxide [1]</b>			
CAS N°	1310-73-2	C< 1.0%	H290 Met. Corr. 1
EC N°	215-185-5		H314 Skin Corr. 1A
IDX N°	011-002-00-6		
REACH N°	01-2119457892-27-xxxx		
<b>hydrogen [4-[4-(diethylamino)-2',4'-disulphonatobenzhydrylidene]cyclohexa-2,5-dien-1-ylidene]diethylammonium, sodium salt</b>			
CAS N°	129-17-9	C< 0.1%	H312 Acute Tox. 4 DERMAL
EC N°	204-934-1		H334 Resp. Sens. 1
IDX N°			H412 Aquatic Chronic 3
REACH N°	01-2120119079-57-0000		

[1] Substances for which maximum workplace exposure limits are available.

**Remark**

Full text of H-statements: see section 16.

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures****Following inhalation:**

Remove person to fresh air and keep comfortable for breathing.

**Following skin contact:**

Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

**Following eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Following ingestion:**

Call a poison center or a doctor if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed****Symptoms:**

After skin contact : Irritation.

After eye contact : Eye irritation.

**Effects:**

After skin contact : Irritation.

After eye contact : Eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor:**

Treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media****Suitable extinguishing media:**

Water spray.

Dry powder.

Foam.

CARBON DIOXIDE.

**5.2. Special hazards arising from the substance or mixture**

Hazardous decomposition products in case of fire: Toxic fumes may be released.

**5.3. Advice for firefighters**

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

**Additional information**

Not available

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel:****Emergency procedures:**

Ventilate spillage area. Avoid contact with skin and eyes.

**For emergency responders:****Individual protection measures, such as personal protective equipment:**

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up****For cleaning up:**

Take up liquid spill into absorbent material.

**Other information:**

Dispose of materials or solid residues at an authorized site.

**6.4. Reference to other sections**

For further information refer to section 13.

**Additional information**

Not available

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling****PROTECTIVE MEASURES:**

Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

**Advices on general occupational hygiene:**

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

**7.2. Conditions for safe storage, including any incompatibilities****Further information on storage conditions:**

Store in a well-ventilated place. Keep cool.

**7.3. Specific end uses**

No additional information available.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limits:**

Substance	Value	Unit	Type
sodium hydroxide CAS : 1310-73-2 (UK)	2	mg/m <sup>3</sup>	Exposure limit value (15 min)

**Biological limit values:**

Not available

**Exposure limits at intended use:**

Not available

**Remark:**

Not available

**8.2. Exposure controls**

**Appropriate engineering controls:**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaustion at critical locations.

**Individual protection measures, such as personal protective equipment:**



**Eye/face protection**

- : **Suitable eye protection:**  
Wear eye protection equipment.  
**Recommended eye protection articles:**  
Eye glasses.

**Skin protection**

- : **Hand protection:**  
**Suitable gloves type:**  
Wear protective gloves.  
**Suitable material:**  
NBR (nitrile rubber).  
**Additional hand protection measures:**  
Do not wear gloves near machines and rotating tools.  
Use gloves only once.  
**Remark:**  
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.  
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.  
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.  
Breakthrough times and swelling properties of the material must be taken into consideration.

**Respiratory protection**

- : **Respiratory protection necessary at:**  
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.  
**Suitable respiratory protection apparatus:**  
Wear respiratory protection.  
**Remark:**  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.  
Observe the wear time limits as specified by the manufacturer.  
Use only respiratory protection equipment with CE-symbol including four digit test number.

**Environmental exposure controls:**

Not available

**Consumer exposure controls:**

Not available

**Additional information**

Not available

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state	: Liquid
Colour	: Blue
Odour	: Odourless
pH	: 9
Melting point/freezing point	: Non Applicable

<b>Initial boiling point and boiling range</b>	:	Not available
<b>Flash point</b>	:	Not available
<b>Flammability</b>	:	Not available
<b>Upper/lower flammability or explosive limits</b>	:	Not available
<b>Vapour pressure</b>	:	Not available
<b>Vapour density</b>	:	Not available
<b>Relative density</b>	:	Not available
<b>Solubility(ies)</b>	:	Soluble In Water.
<b>Partition coefficient n-octanol/water (log value)</b>	:	Not available
<b>Auto-ignition temperature</b>	:	Not available
<b>Decomposition temperature</b>	:	Not available
<b>Kinematic viscosity</b>	:	Not available
<b>Solubility in other Solvents</b>	:	Not available
<b>Particle characteristics</b>	:	Not available

## 9.2. Other safety information

### Information concerning to the classes of physical hazards

Not available

### Other security characteristics

Not available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Additional information

Not available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute oral toxicity:**

The product is not classified.

#### **Data for mixture:**

Not available

#### **Substances:**

- **potassium chloride (CAS: 7447-40-7):**

Subendpoint	Operator	Value	Unit
LD50:		2600	mg/kg

Conclusion : Not available

#### **Acute dermal toxicity:**

The product is not classified.

#### **Data for mixture:**

Subendpoint	Operator	Value	Unit
LD50:	>	2000	mg/kg

Conclusion : Not available

#### **Substances:**

Not available

#### **Acute inhalation toxicity:**

The product is not classified.

#### **Data for mixture:**

Not available

#### **Substances:**

Not available

**Skin corrosion/irritation:**

Causes skin irritation.

PH: 9 25°C.

**Data for mixture:**

Not available

**Substances:**

Not available

**Serious eye damage/irritation:**

Causes serious eye irritation.

PH: 9 25°C.

**Data for mixture:**

Not available

**Substances:**

Not available

**Skin sensitisation:**

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

**Specific target organ toxicity (repeated exposure):**

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

**Specific target organ toxicity (single exposure):**

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

**Carcinogenicity:**

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

Not available

**Reproductive toxicity:**

Not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

Not available

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

Not available

**Sensitisation to the respiratory tract:**

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

Not available

**Additional information:**

Not available

**11.2. Information on other hazards**

**Endocrine disrupting properties:**

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified.

Hazardous to the aquatic environment, long-term (chronic) : Not classified.

#### Data for mixture:

Not available

#### Substances:

Not available

### 12.2. Persistence and degradability

No additional information available.

#### Data for mixture:

Not available

#### Substances:

Not available

### 12.3. Bioaccumulative potential

No additional information available.

#### Data for mixture:

Not available

#### Substances:

Not available

### 12.4. Mobility in soil

No additional information available.

#### Data for mixture:

Not available

#### Substances:

Not available

### 12.5. Results of PBT and vPvB assessment

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

### 12.6. Endocrine disrupting properties

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

### 12.7. Other adverse effects

No additional information available.

#### Additional ecotoxicological information

Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Product/Packaging disposal:

#### Waste treatment options:

Dispose of contents/container in accordance with licensed collector's sorting instructions.

#### Additional information

Not available

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

Not available

### 14.2. UN proper shipping name

Not available

### 14.3. Transport hazard class(es)

Not available

### 14.4. Packing group

Not available

### 14.5. Environmental hazards

Not available

### 14.6. Special precautions for user

Not available

### 14.7. Bulk shipping according to IMO instruments

Not available

#### Additional information

Not available

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.  
This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

**EU legislation:****CLP: Harmonised classification and labelling of hazardous substances (Annex VI, table 3.1)\_ATP 17:**

Substance	CAS	EC
Boric acid	10043-35-3	233-139-2

**REACH: Annex XVII (Restrictions):**

Substance	CAS	EC
Boric acid	10043-35-3	233-139-2

**REACH: Candidate List of SVHC:**

Substance	CAS	EC
Boric acid	10043-35-3	233-139-2

**Seveso III : Substances nommément désignées:**

Substance	CAS	EC
sodium hydroxide	1310-73-2	215-185-5

**National regulations:****Cosmetic Ingredient Hotlist:**

Substance	CAS	EC
Boric acid	10043-35-3	233-139-2

**U.S. - NY - RTK:**

Substance	CAS	EC
sodium hydroxide	1310-73-2	215-185-5

**15.2. Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**Additional information**

Not available

**SECTION 16: OTHER INFORMATION****Indication of changes**

Not applicable (first edition of the MSDS).

**Abbreviations and acronyms**

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.

CLP: Classification, labeling and packaging.

VPvB: very persistent and very bioaccumulative substances.

**Key literature references and sources for data**

No data available.

**Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]**

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

Complies with ATP 18, Regulation (EU) n°2022/692.

**Relevant R-, H- and EUH-phrases (Number and full text)**

H290	Met. Corr. 1	May be corrosive to metals.
H312	Acute Tox. 4 DERMAL	Harmful in contact with skin.
H314	Skin Corr. 1A	Causes severe skin burns and eye damage.
H334	Resp. Sens. 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H360	Repr. 1B	May damage fertility or the unborn child.
H412	Aquatic Chronic 3	Harmful to aquatic life with long lasting effects

**Training advice**

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

**Additional information**

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The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.