

# Safety Data Sheets

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

### Product identifier

Part number Number/Product Name: 02261/pH Buffer Solution, pH 10.01 (25°C)

Pure substance/mixture: Mixture

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

Intended use: pH sensor buffer solution

Uses advised against: No information available

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

Supplier: Green Instruments A/S

Address: Erhvervsparken 29, DK – 9700 Brønderslev, Denmark

Phone/Fax: +45 96454500/+45 96454501

Email: [service@greeninstruments.com](mailto:service@greeninstruments.com)

Emergency telephone number: +45 96454500 8:00 – 16:00 Copenhagen Time Zone

## 2. Hazard(s) Identification

Classification of the substance/  
mixture: Mixture

Classification according to Regulation  
(EC) No. 1272/2008: This mixture is classified as not hazardous according to regulation  
EC 1272/2008

Symbol(s): Not dangerous goods

Label elements:

Product identifier

Hazard symbol: None

Signal word: None

Hazard statement: Not available

Precautionary statement: Not available

Other hazards: No information available

## 3. Composition/information on ingredients

Chemical nature: Aqueous solution of inorganic compounds

Substance: Not applicable

Mixture: CAS-No.: 13840-56-7\*

orthoboric acid, sodium salt (1:n) ( $\geq 0,3\%$  -  $< 0,5\%$ )

Reproductive toxicity, Category 1B, H360FD

\*A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 4. First-aid measures

General note:	Use first aid treatment according to the nature of the injury. Show this safety data sheet to the doctor in attendance.
Inhalation:	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact:	Wash affected area with water and soap
Eye contact:	Rinse with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persist.
Ingestion:	Get medical attention if symptoms occur
Protection of First-aiders:	Use personal protective equipment. See section 8 for more detail.
Most important symptoms and effects, both acute and delayed:	The following applies to boron compounds in general: resorption is followed by nausea and vomiting, agitation, spasms, CNS disorders, cardiovascular disorders.
Indication of any immediate medical attention and special treatment needed:	Treat symptomatically

#### 5. Fire-fighting measures

Suitable extinguishing media:	Use extinguishing agent suitable for type of surrounding fire. Water spray. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
Unsuitable extinguishing media:	Not available.
Specific hazards arising from the chemical:	Not available.
Advice for firefighters:	Wear suitable protective equipment.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.
Environmental precautions:	Never return spill in original containers for re-use. For waste disposal, see section 13 of the SDS. No special environmental precautions required.
Methods and materials for containment and cleaning up:	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.
Reference to other sections:	Refer to protective measures listed in sections 7 and 8. See section 8 for information on appropriate personal protective equipment. See section 12 for additional Ecological information. See section 13 for additional waste treatment information

#### 7. Handling and storage

Precautions for safe handling:	Observe label precautions
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Conditions for safe storage, including any incompatibilities: Tightly closed. Recommended storage temperature see product label.

Risk Management Method(s): The information required is contained in this Safety Data Sheet

## 8. Exposure controls/personal protection

Control parameters: No exposure limits noted for ingredient(s)

Exposure controls  
Engineering Measures: Good general ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Maintain general industrial hygiene practice.

Individual protection measures, such as personal protective equipment

General: As appropriate to quantity handled.

Eye/face protection: Goggles or face mask.

Skin and body protection  
Hand protection: Gloves.  
Full/splash contact:  
Glove material: Nitrile rubber  
Glove thickness: 0.11 mm  
Break through time: > 480 min  
The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.  
The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.  
This recommendation applies only to the product stated in the safety data sheet (>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Other: Not normally needed.  
Protective clothing is recommended. Change contaminated clothing. Wash hands after working with substance.

Respiratory protection: Required when vapors/aerosols are generated

Environmental exposure controls: No information available

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: Liquid

Form: Aqueous solution

Color: Colorless

Odor: Odorless

Odor threshold: Not available

pH at 25°C:	10.0
<b>Property</b>	<b>Values</b>
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	100°C at 1.013 hPa
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive limits	
Flammability limit – lower (%):	Not available
Flammability limit – upper (%):	Not available
Explosive limit – lower (%):	Not available
Explosive limit – upper (%):	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available

Solubility(ies)	
Solubility (water):	at 20 °C soluble
Partition coefficient: (n-octanol/water)	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Other information	
Density:	1.0044 g/cm <sup>3</sup> at 25°C
Percent volatile:	Not available
Specific gravity:	Not available

## 10. Stability and reactivity

Reactivity:	The generally known reaction partners of water
Chemical stability:	Material is stable under normal conditions
Explosion Data	
Sensitivity to Mechanical Impact:	None
Sensitivity to Static Discharge:	None
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Heating
Substances to be avoided:	The generally known reaction partners of water
Hazardous decomposition products:	In the event of fire: See section 5.

## 11. Toxicological information

Information on toxicological effects

Acute Toxicity

Product information:

Hazardous properties cannot be excluded, but are relatively unlikely because of the low concentration of dissolved substances, when the product is handled appropriately. The product should be handled with the usual care when dealing with chemicals

Inhalation:

No information available

Skin contact:

No information available

Eye contact:

No information available

Ingestion:

Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics:

Not available

Skin corrosion/irritation:

No information available

Serious eye damage/eye irritation:

No information available

Respiratory or skin sensitization

Respiratory sensitization:

No information available

Skin sensitization:

No information available

Germ cell mutagenicity:

No information available

Carcinogenicity:

This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA

Reproductive toxicity:

No information available

Specific target organ toxicity – single exposure:

No information available

Specific target organ toxicity – repeated exposure:

No information available

Aspiration hazard:

No information available

Chronic effects:

Prolonged inhalation may be harmful

Further information:

This product has no known adverse effect on human health

## 12. Ecological information

Ecotoxicity:

No ecological problems are to be expected when the product is handled and used with due care and attention.

Information on toxicological effects:

Not available

Persistence and degradability:

Not available

Bioaccumulative potential:

Partition coefficient: n-octanol/water

Mobility in soil:

Not available

Results of PBT and vPvB assessment:

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

Other adverse effects:

Not available

Endocrine Disruptor Information:

Not available

### 13. Disposal considerations

Disposal instructions:	Wash to drains with lots of water. Dispose in accordance with all applicable regulations
Hazardous waste code:	Not regulated
Waste from residues/unused products:	Dispose of in accordance with local regulations. This material and its container can be safely disposed of as ordinary refuse.
Contaminated packaging:	Not regulated.

### 14. Transport information

IMDG	Not regulated
IATA	Not regulated
ICAO	Not regulated
RID	Not regulated
ARD	Not regulated

### 15. Regulatory information

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

Take note of Directive 98/24/EC on the protection of the health and safety of worker from the risks related to chemical agents at work.

#### International Inventories

<i>Inventory name</i>	<i>On inventory (yes/no)*</i>
Australian Inventory of Chemical Substances (AICS)	Yes
Canadian Domestic Substances List (CANINV/ DSL)	Yes
Canadian Non-Domestic Substances List (CANINV/NDSL)	Yes
Chinese Inventory of Existing Chemical Substances (IECSC)	Yes
European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
European List of Notified Chemical Substances (ELINCS)	Yes
Korea Existing Chemicals List (ECL)	Yes
Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States and Puerto Rico Toxic Substances Control Act Inventory (USINV/TSCA)	Yes

\* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### Substances of very high concern (SVHC)

This product does contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 59 above the respective regulatory concentration limit of > 0.1 % (w/w).

Contains: orthoboric acid, sodium salt (1:n)

#### Chemical safety assessment

A chemical safety assessment according to regulation EC No. 1907/2006 was not carried out.

## 16. Other information

Full text of H-Statements referred to under sections 3:

H360FD May damage fertility. May damage the unborn child.

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Disclaimer: The information in the sheet was written based on the best knowledge and experience currently available. 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. Because many factors may effect processing or application/use, Green Instruments recommends you an assessment to determine the suitability of a product for your particular purpose prior to use. 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. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sales. Further, the descriptions, data and information given are assumed. All such being given and accepted at your risk.

End of Safety Data Sheet.