

Safety Data Sheets

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

Product identifier

Part number Number/Product Name: 02259/pH Buffer Solution, pH 4.01

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

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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

Aqueous Buffer Solution

<i>Chemical name</i>	<i>CAS No.</i>	<i>EC No.</i>	<i>Weight %</i>	<i>CLP Classification Reg. EC no. 1272/2008</i>
Water	7732-18-5	231-791-2	> 95%	No information available
Other components disclosure not required according to Regulation EC No. 1907/2006			< 5%	

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:	No information available
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 ₂).
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:	No special precautions
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:	Containment of this material should not be necessary. This product is miscible in water. Flush with water.
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:	No special precautions required.
Conditions for safe storage, including any incompatibilities:	Keep container closed and protected from direct sunlight. Store at room temperature (+15°C to +25°C).
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	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.
Engineering Measures:	
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	Rubber or plastic gloves.
Hand protection:	Not normally needed.
Other:	Normal work clothing (long sleeved shirts and long pants) 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 20°C:	4.01
Property	Values
Melting point/freezing point:	32°F (0°C) estimated
Initial boiling point and boiling range:	212°F (100°C) estimated
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):	Completely Miscible
Partition coefficient: (n-octanol/water)	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Other information

Density:	1.00 g/cm ³ estimated
Percent volatile:	Not available
Specific gravity:	Not available

10. Stability and reactivity

Reactivity:	Not available
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:	Not available
Mobility in soil:	Not available
Results of PBT and vPvB assessment:	Not available
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).

Chemical safety assessment

A chemical safety assessment according to regulation EC No. 1907/2006 is not required.

16. Other information

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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.