

**Buffer pH 4\_791436-506251-150535**

Revision date: 08.03.2017

Product code: 506256

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**1. Identification****Product identifier**

Buffer pH 4\_791436-506251-150535

**Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Buffer solution

**Details of the supplier of the safety data sheet****Manufacturer**

Company name: ProMinent GmbH  
Heidelberg  
Street: Im Schuhmachergewann 5-11  
Place: D-69123 Heidelberg  
Telephone: +49 6221 842 -0  
Contact person: Sabine Baumann  
e-mail: s.baumann@prominent.de  
Internet: www.prominent.com  
Responsible Department: Product Safety/Produktsicherheit

Telefax: +49 6221 842 -445  
Telephone: -720

**Supplier**

Company name: ProMinent GmbH  
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**Emergency telephone number:** Giftnotruf Berlin +49 (0)30 - 19240**2. Hazard identification****Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

No risks worthy of mention.

**Label elements****Regulation (EC) No. 1272/2008****Other hazards**

none

**3. Composition/information on ingredients****Mixtures****Chemical characterization**

Buffer solution

**Hazardous components**

CAS No	Chemical name	Quantity
1310-73-2	Sodium hydroxide; caustic soda	< 0.1 %

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**4. First-aid measures****Description of first aid measures****General information**

none

**After inhalation**

Provide fresh air. none

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with: Water.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Let water be drunken in little sips (dilution effect).

**Indication of immediate medical attention and special treatment needed**

Treat symptomatically. none

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

none

**Specific hazards arising from the hazardous product**

Non-flammable. The product itself does not burn.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus. none

**Additional information**

none

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

none

**Environmental precautions**

none

**Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

none

**7. Handling and storage**

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**Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

**Advice on protection against fire and explosion**

The product itself does not burn.

**Further information on handling**

none

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep cool. Protect from sunlight.

**Advice on storage compatibility**

No special measures are necessary.

**8. Exposure controls/Personal protection****Control parameters****Exposure limits (ACGIH)**

CAS No	Chemical name	ppm	mg/m <sup>3</sup>	F/ml	Category	Origin
1310-73-2	Sodium hydroxide	-	-		TWA (8 h)	ACGIH-2016
			2		Peak	ACGIH-2016

**Additional advice on limit values**

No risks worthy of mention.

**Exposure controls****Appropriate engineering controls**

No risks worthy of mention.

**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. No risks worthy of mention.

**Eye/face protection**

Wear eye protection/face protection.

**Hand protection**

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.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. none

**Environmental exposure controls**

none

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**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	red
Odour:	odourless

pH-Value (at 20 °C):

4

**Test method****Changes in the physical state**

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	not determined

**Flammability**

Solid:	not applicable
Gas:	not applicable

Lower explosive limits:	not determined
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Upper explosive limits:	not determined
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**Auto-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapour pressure:	not determined
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Density:	1 g/cm <sup>3</sup>
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Water solubility:	easily soluble
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**Solubility in other solvents**

Water.

Partition coefficient:	not determined
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Vapour density:	not determined
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Evaporation rate:	not determined
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**Other information**

Solid content:	not determined
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**10. Stability and reactivity****Conditions to avoid**

none

**Incompatible materials**

none

**Hazardous decomposition products**

none

**11. Toxicological information****Information on toxicological effects**

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**Toxicokinetics, metabolism and distribution**

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

**Additional information on tests**

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Name of toxicologically synergistic products**

No risks worthy of mention.

**12. Ecological information****Persistence and degradability**

There are no data available on the mixture itself.

**Bioaccumulative potential**

There are no data available on the mixture itself.

**Mobility in soil**

There are no data available on the mixture itself.

**Other adverse effects**

none

**Further information**

Avoid release to the environment.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation. Dispose of waste according to applicable legislation.

**Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled. Dispose of waste according to applicable legislation.

**14. Transport information****Marine transport (IMDG)****UN number:**

No dangerous good in sense of this transport regulation.

**United Nations proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)****UN number:**

No dangerous good in sense of this transport regulation.

**United Nations proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**15. Regulatory information****Canadian regulations**

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**DSL/NDL inventory status**

No risks worthy of mention.

**National Pollutant Release Inventory (NPRI)**

No risks worthy of mention.

**WHMIS classification**

No risks worthy of mention.

**Provincial regulations**

No risks worthy of mention.

**16. Other information****Changes**

This data sheet contains changes from the previous version in section(s): 4,5,6,7,8,9,11,12,13,14,16.

**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*