

	Revision Date 22.05.2015	Version 1.1
CTION 1. Identification of the ou	bstance/mixture and of the company/u	indottoking
1.1 Product identifier	ibstance/mixture and of the company/u	
Catalogue No.	115231	
Product name	2-[4-(2-Hydroxyethyl)-1-piperazinyl]-e buffer substance HEPES-Na	thanesulfonic acid sodium salt
REACH Registration Number	A registration number is not available substance or its use are exempted fro Article 2 REACH Regulation (EC) No does not require a registration or the later registration deadline.	om registration according to 1907/2006, the annual tonnage
CAS-No.	75277-39-3	
1 2 Relevant identified uses of th	e substance or mixture and uses advis	ed against
Identified uses	Reagent for development and research	•
	For additional information on uses ple portal (www.merckgroup.com).	
1.3 Details of the supplier of the	safety data sheet	
Company	Merck KGaA * 64271 Darmstadt * Ge	rmany * Phone:+49 6151 72-0
Responsible Department	LS-QHC * e-mail: prodsafe@merckgr	oup.com
1.4 Emergency telephone number	Please contact the regional company	representation in your country.

This substance is not classified as dangerous according to European Union legislation.

## 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

## 2.3 Other hazards

None known.

## SECTION 3. Composition/information on ingredients

## 3.1 Substance

Formula	C₅H₁7N₂NaO₄S (Hill)
EC-No.	278-169-7
Molar mass	260,29 g/mol

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Remarks	No disclosure requirement according to Regulation (EC) No. 1907/2006.
3.2 Mixture	

Not applicable

#### **SECTION 4. First aid measures**

### 4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

## 4.2 Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

**4.3 Indication of any immediate medical attention and special treatment needed** No information available.

## **SECTION 5. Firefighting measures**

## 5.1 Extinguishing media

*Suitable extinguishing media* Water, Carbon dioxide (CO2), Foam, Dry powder

*Unsuitable extinguishing media* For this substance/mixture no limitations of extinguishing agents are given.

#### 5.2 Special hazards arising from the substance or mixture

Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of: nitrogen oxides, Sulphur oxides

#### 5.3 Advice for firefighters

*Special protective equipment for firefighters* In the event of fire, wear self-contained breathing apparatus.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

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#### 6.2 Environmental precautions

Do not empty into drains.

### 6.3 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 dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

## 6.4 Reference to other sections

Indications about waste treatment see section 13.

## SECTION 7. Handling and storage

## 7.1 Precautions for safe handling Advice on safe handling

Observe label precautions.

*Hygiene measures* Change contaminated clothing. Wash hands after working with substance.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Tightly closed. Dry.

Recommended storage temperature see product label.

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8. Exposure controls/personal protection

#### 8.1 Control parameters

#### 8.2 Exposure controls

#### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

*Eye/face protection* Safety glasses

Hand protection

full contact:

Glove material: Glove thickness: Break through time: Nitrile rubber 0,11 mm > 480 min

splash contact:

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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, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

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 (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Environmental exposure controls

Do not empty into drains.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	Crystalline powder to crystals
Colour	colourless to white
Odour	No strong odour known.
Odour Threshold	No information available.
рН	No information available.
Melting point	No information available.
Boiling point	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.

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Vapour pressure	No information available.
Relative vapour density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	No information available.
Partition coefficient: n-	No information available.
octanol/water Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
9.2 Other data	

none

## SECTION 10. Stability and reactivity

#### 10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

## 10.2 Chemical stability

hygroscopic

## 10.3 Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents

## 10.4 Conditions to avoid

no information available

### **10.5 Incompatible materials** no information available

## 10.6 Hazardous decomposition products

in the event of fire: See section 5.

## SECTION 11. Toxicological information

## 11.1 Information on toxicological effects

*Acute oral toxicity* This information is not available.

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*Acute inhalation toxicity* This information is not available.

*Acute dermal toxicity* This information is not available.

*Skin irritation* This information is not available.

*Eye irritation* This information is not available.

*Sensitisation* This information is not available.

*Germ cell mutagenicity* This information is not available.

*Carcinogenicity* This information is not available.

*Reproductive toxicity* This information is not available.

*Teratogenicity* This information is not available.

*Specific target organ toxicity - single exposure* This information is not available.

*Specific target organ toxicity - repeated exposure* This information is not available.

*Aspiration hazard* This information is not available.

## 11.2 Further information

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 12. Ecological information

12.1 Toxicity

No information available.

- **12.2 Persistence and degradability** No information available.
- **12.3 Bioaccumulative potential** No information available.
- **12.4 Mobility in soil** No information available.

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### 12.6 Other adverse effects

Discharge into the environment must be avoided.

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## SECTION 13. Disposal considerations

#### Waste treatment methods

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

Land transport (ADR/RID)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
Inland waterway transport (ADN	N)
Not relevant	
Air transport (IATA)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
Sea transport (IMDG)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.

Not relevant

## **SECTION 15. Regulatory information**

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

<i>EU regulations</i> Major Accident Hazard Legislation	96/82/EC Directive 96/82/EC do	es not apply
Regulation (EC) No 1005/200 deplete the ozone layer	9 on substances that	not regulated
Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC		not regulated
Regulation (EC) No 689/2008 and import of dangerous chen		not regulated
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of $\ge$ 0.1 % (w/w).
<i>National legislation</i> Storage class	10 - 13	

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### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

#### **SECTION 16. Other information**

### Training advice

Provide adequate information, instruction and training for operators.

### Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

## **Regional representation**

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.