

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 20.12.2016

Version 9.3

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

1.1 Product identifier

| Catalogue No.                        | 106586   |
|--------------------------------------|--|
| Product name                         | di-Sodium hydrogen phosphate anhydrous for analysis EMSURE®<br>ACS,Reag. Ph Eur  |
| REACH Registration Number            | A registration number is not available for this substance as the<br>substance or its use are exempted from registration according to<br>Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage<br>does not require a registration or the registration is envisaged for a<br>later registration deadline. |
| CAS-No.                              | 7558-79-4  |
| 1.2 Relevant identified uses of the  | e substance or mixture and uses advised against  |
| Identified uses                      | Reagent for analysis<br>For additional information on uses please refer to the Merck Chemicals   |
|                                      | portal (www.merckgroup.com).   |
| 1.3 Details of the supplier of the s | safety data sheet  |
| Company                              | Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0   |
| Responsible Department               | LS-QHC * e-mail: prodsafe@merckgroup.com   |
| 1.4 Emergency telephone<br>number    | Please contact the regional company representation in your country.  |

## SECTION 2. Hazards identification

## 2.1 Classification of the substance or mixture

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.

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## 2.3 Other hazards

None known.

## SECTION 3. Composition/information on ingredients

## 3.1 Substance

| Formula    | Na₂HPO₄                        | HNa₂O₄P (Hill)                              |
|------------|--------------------------------|---|
| EC-No.     | 231-448-7                      |   |
| Molar mass | 141,96 g/mol                   |   |
|            |                                |   |
| Remarks    | No disclosure re<br>1907/2006. | equirement according to Regulation (EC) No. |

## 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 with the eyelid held wide open. Call in ophthalmologist if necessary.

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

irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

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#### **SECTION 5. Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

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

## 5.2 Special hazards arising from the substance or mixture

- Not combustible.
- Ambient fire may liberate hazardous vapours.
- Fire may cause evolution of:
- Oxides of phosphorus

## 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.

## 6.2 Environmental precautions

Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

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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.

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|               | Fur  |

#### 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:     | Nitrile rubber |
|---------------------|----------------|
| Glove thickness:    | 0,11 mm        |
| Break through time: | > 480 min      |

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

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 (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

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## SECTION 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

| Form                      | solid                            |
|---------------------------|----------------------------------|
| Colour                    | white                            |
| Odour                     | odourless                        |
| Odour Threshold           | Not applicable                   |
| рН                        | 8,7 - 9,3<br>at  10 g/l<br>20 °C |
| Melting point             | ca. 250 °C<br>(decomposition)    |
| Boiling point             | No information available.        |
| Flash point               | does not flash                   |
| Evaporation rate          | No information available.        |
| Flammability (solid, gas) | The product is not flammable.    |
| Lower explosion limit     | Not applicable                   |
| Upper explosion limit     | Not applicable                   |
| Vapour pressure           | No information available.        |
| Relative vapour density   | No information available.        |
| Density                   | No information available.        |

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|--|---|
| Relative density                           | No information available.   |
| Water solubility                           | 77 g/l<br>at 20 °C  |
| Partition coefficient: n-<br>octanol/water | No information available.   |
| Auto-ignition temperature                  | No information available.   |
| Decomposition temperature                  | > 250 °C  |
| Viscosity, dynamic                         | No information available.   |
| Explosive properties                       | Not applicable  |
| Oxidizing properties                       | none  |
| 9.2 Other data                             |   |
| Ignition temperature                       | not combustible   |
| Bulk density                               | ca.880 kg/m3  |

## SECTION 10. Stability and reactivity

## 10.1 Reactivity

See section 10.3

## 10.2 Chemical stability

hygroscopic

## 10.3 Possibility of hazardous reactions

Exothermic reaction with:

Strong acids, antipyrine, acetates

## 10.4 Conditions to avoid

no information available

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## 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 LD50 Rat: > 2.000 mg/kg OECD Test Guideline 420

#### Acute inhalation toxicity

This information is not available.

Acute dermal toxicity This information is not available.

*Skin irritation* Rabbit Result: No irritation

OECD Test Guideline 404

After long-term exposure to the chemical: slight irritation

Eye irritation

After long-term exposure to the chemical: slight irritation

Sensitisation

This information is not available.

Germ cell mutagenicity Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative Method: OECD Test Guideline 471 *Carcinogenicity* This information is not available.

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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

However, when the product is handled appropriately, hazardous effects are unlikely to occur.

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 12. Ecological information

#### 12.1 Toxicity

*Toxicity to fish* LC50 Gambusia affinis (Mosquito fish): 467 mg/l; 48 h (Lit.)

*Toxicity to daphnia and other aquatic invertebrates* EC50 Daphnia magna (Water flea): 1.089 mg/l; 48 h (Lit.)

## 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

Additional ecological information

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.

| SECTION 14. Transport information  |  |
|------------------------------------|--|
| Land transport (ADR/RID)           |  |
| 14.1 - 14.6                        | Not classified as dangerous in the meaning of transport regulations. |
| Inland waterway transport (ADN)    |  |
| 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. |
| 14.7 Transport in bulk according t | to Annex II of MARPOL 73/78 and the IBC Code                         |
| Not relevant                       |  |

## SECTION 15. Regulatory information

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

| EU regulations        |                |
|-----------------------|----------------|
| Major Accident Hazard | SEVESO III     |
| Legislation           | Not applicable |

| Regulation (EC) No 1005/2009 on substances that | not regulated |
|---|---------------|
| deplete the ozone layer                         |               |

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|---|---------------------------------------|---|
| Regulation (EC) No 850/2004<br>Parliament and of the Council<br>persistent organic pollutants a<br>Directive 79/117/EEC | of 29 April 2004 on                   | not regulated   |
| Substances of very high conce   | ern (SVHC)                            | This product does not contain substances<br>of very high concern according to<br>Regulation (EC) No 1907/2006 (REACH),<br>Article 57 above the respective regulatory<br>concentration limit of $\ge$ 0.1 % (w/w). |
| <i>National legislation</i><br>Storage class  | 10 - 13                               |   |

## 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.

#### 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.