

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 07/29/2014

Version 1.4

#### **SECTION 1. Identification**

### **Product identifier**

Product number 106346

Product name Sodium dihydrogen phosphate monohydrate for analysis EMSURE®

ACS, Reag. Ph Eur

CAS-No. 10049-21-5

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

Identified uses Reagent for analysis

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

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,

United States of America | General Inquiries: +1-978-715-4321 | Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)

Emergency telephone 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

### SECTION 2. Hazards identification

#### **GHS-Labeling**

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

#### **OSHA Hazards**

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS and may deviate from the GHS information.

### Other hazards

None known.

### SECTION 3. Composition/information on ingredients

Formula  $NaH_2PO_4 * H_2O$   $H_2NaO_4P * H_2O H_2NaO_4P * H_2O (Hill)$ 

Molar mass 137.99 g/mol

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Remarks No hazardous ingredients according to the OSHA Hazard

Communication Standard 29 CFR 1910.1200.

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

### Description of first-aid measures

Inhalation

After inhalation: fresh air.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing.

Eve contact

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

Inaestion

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

Never give anything by mouth to an unconscious person.

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

irritant effects

### Indication of any immediate medical attention and special treatment needed

No information available.

### SECTION 5. Fire-fighting measures

#### 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.

### Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapors.

Fire may cause evolution of:

Oxides of phosphorus

# Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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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.

### **Environmental precautions**

Do not empty into drains.

### 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.

### SECTION 7. Handling and storage

### Precautions for safe handling

Observe label precautions.

### Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Storage temperature: no restrictions.

### SECTION 8. Exposure controls/personal protection

## Exposure limit(s)

Contains no substances with occupational exposure limit values.

### **Engineering measures**

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

### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

### Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

# Eye/face protection

Safety glasses

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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### SECTION 9. Physical and chemical properties

Physical state crystals

Color colorless

Odor odorless

Odor Threshold not applicable

pH 4.1 - 4.5

at 50 g/l 77 °F ( 25 °C)

Melting point decomposes

Boiling point/boiling range not applicable

Flash point does not flash

Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit not applicable

Upper explosion limit not applicable

Vapor pressure No information available.

Relative vapor density No information available.

Density 2.04 g/cm³

at 68 °F (20 °C)

Relative density No information available.

Water solubility 850 g/l

at 68 °F ( 20 °C)

Partition coefficient: n-

octanol/water

No information available.

Autoignition temperature No information available.

Decomposition temperature 212 °F ( 100 °C)

Elimination of water of crystallization

Viscosity, dynamic No information available.

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Explosive properties Not classified as explosive.

Oxidizing properties none

Ignition temperature not combustible

Bulk density ca. 880 kg/m³

# SECTION 10. Stability and reactivity

# Reactivity

See below

## Chemical stability

hygroscopic

### Possibility of hazardous reactions

Violent reactions possible with:

Strong acids

### Conditions to avoid

Strong heating (decomposition).

### Incompatible materials

no information available

# Hazardous decomposition products

in the event of fire: See section 5.

# SECTION 11. Toxicological information

# Information on toxicological effects

Likely route of exposure

Eye contact, Skin contact, Ingestion

Acute oral toxicity

LD50 rat: > 2,000 mg/kg OECD Test Guideline 401

Acute dermal toxicity

LD50 rabbit: > 7,940 mg/kg (anhydrous substance) (IUCLID)

Eve irritation

rabbit

Result: slight irritation

(IUCLID)

Possible damages: slight irritation

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Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

### Carcinogenicity

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

#### **Further information**

No toxic effects are to be expected when the product is handled appropriately.

Further data:

Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12. Ecological information**

### **Ecotoxicity**

Toxicity to fish

LC0 Leuciscus idus (Golden orfe): ca. 2,400 mg/l; 48 h

OECD Test Guideline 203 (anhydrous substance)

# Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

### Bioaccumulative potential

No information available.

### Mobility in soil

No information available.

Additional ecological information

Depending on the concentration, phosphates may contribute to the eutrophication of water supplies.

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Discharge into the environment must be avoided.

# SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

### **SECTION 14. Transport information**

### Land transport (DOT)

Not classified as dangerous in the meaning of transport regulations.

# Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

### Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

### **SECTION 15. Regulatory information**

# **United States of America**

#### **OSHA Hazards**

No OSHA Hazards

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

### SARA 311/312 Hazards

No SARA Hazards

### **SARA 313**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **SARA 302**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311,

Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311,

Table 117.3.

**DEA List I** 

Not listed

**DEA List II** 

Not listed

### **US State Regulations**

### Massachusetts Right To Know

Remarks

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know

Ingredients

Sodium Phosphate, Monobasic, Monohydrate, Molecular Biology Grade

### New Jersey Right To Know

Ingredients

Sodium Phosphate, Monobasic, Monohydrate, Molecular Biology Grade

### California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### **Notification status**

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

### 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.

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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