

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 26151-99 Phthalate-Phosphate Reagent

Print date: 20.07.2015

Product code: 2615199

Page 1 of 9

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

##### 1.1. Product identifier

26151-99 Phthalate-Phosphate Reagent

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

###### Use of the substance/mixture

Water analysis

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

Company name: HACH LANGE GmbH  
Street: Willstätterstr. 11  
Place: D-40549 Düsseldorf  
Telephone: +49 (0)211 5288-383  
e-mail: SDS@hach.com  
Internet: www.de.hach.com  
Responsible Department: HACH LANGE Ltd.  
Pacific Way  
Salford Manchester M50 1DL - United Kingdom  
Tel. +44 (0) 161 872 1487  
e-Mail: info@hach-lange.co.uk

HACH LANGE Ltd.  
Unit 1, Chestnut Road Western Industrial Estate  
IRL-Dublin 12  
Tel. +353 (0)1 4602522  
e-Mail: info@hach-lange.ie

##### 1.4. Emergency telephone number:

Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service -

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

Hazard categories:  
Acute toxicity: Acute Tox. 4  
Serious eye damage/eye irritation: Eye Irrit. 2  
Specific target organ toxicity - single exposure: STOT SE 3  
Hazard Statements:  
Harmful in contact with skin.  
Causes serious eye irritation.  
May cause respiratory irritation.

##### 2.2. Label elements

###### Hazardous components which must be listed on the label

Sodium pyrophosphate tetrabasic  
Potassium hydrogen phthalate

Signal word: Warning

Pictograms:



according to Regulation (EC) No 1907/2006

**26151-99 Phthalate-Phosphate Reagent**

Print date: 20.07.2015

Product code: 2615199

Page 2 of 9

**Hazard statements**

- H312 Harmful in contact with skin.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.

**Precautionary statements**

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P337+P313 If eye irritation persists: Get medical advice/attention.

**Additional advice on labelling**

Classification according to European directive on classification of hazardous preparations 1999/45/EC.  
 The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

**2.3. Other hazards**

no data available

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Hazardous components**

| CAS No    | Chemical name   |          |          | Quantity |
|-----------|---|----------|----------|----------|
|           | EC No   | Index No | REACH No |          |
|           | Classification according to Regulation (EC) No. 1272/2008 [CLP] |          |          |          |
| 877-24-7  | Potassium hydrogen phthalate                                    |          |          | 70-80 %  |
|           | 212-889-4   |          |          |          |
|           | Acute Tox. 4, Eye Irrit. 2; H312 H319                           |          |          |          |
| 7722-88-5 | Sodium pyrophosphate tetrabasic                                 |          |          | 20-30 %  |
|           | 231-767-1   |          |          |          |
|           | Eye Irrit. 2, STOT SE 3; H319 H335                              |          |          |          |

Full text of H and EUH phrases: see section 16.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

Take off all contaminated clothing immediately.

**After inhalation**

Move to fresh air.

**After contact with skin**

Wash off immediately with plenty of water. If skin irritation persists, call a physician.

**After contact with eyes**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Show this safety data sheet to the doctor in attendance.

**After ingestion**

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 26151-99 Phthalate-Phosphate Reagent

Print date: 20.07.2015

Product code: 2615199

Page 3 of 9

Call a physician immediately. Show this safety data sheet to the doctor in attendance.

#### **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**

Treat symptomatically.

### **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**

No Limit

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

Fire may liberate hazardous vapours. The following may develop in event of fire: sulfur oxides., Acid anhydrides, Sodium oxides, Carbon oxides

#### **5.3. Advice for firefighters**

In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

##### **Additional information**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### **SECTION 6: Accidental release measures**

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

Use personal protective equipment.

#### **6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

#### **6.3. Methods and material for containment and cleaning up**

Sweep up or vacuum up spillage and collect in suitable container for disposal.

#### **6.4. Reference to other sections**

13. Disposal considerations

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Avoid contact with skin and eyes.  
Do not breathe vapours/dust.

##### **Advice on protection against fire and explosion**

See also section 5

##### **Further information on handling**

Avoid contact with skin, eyes and clothing.

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

##### **Requirements for storage rooms and vessels**

Keep away from heat and sources of ignition.

##### **Advice on storage compatibility**

Incompatible with oxidizing agents.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**26151-99 Phthalate-Phosphate Reagent**

Print date: 20.07.2015

Product code: 2615199

Page 4 of 9

**Further information on storage conditions**

no data available

**7.3. Specific end use(s)**

no data available Reagent for analysis

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

| CAS No    | Substance                 | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|-----------|---------------------------|-----|-------------------|-----------|---------------|--------|
| 7722-88-5 | Tetrasodium pyrophosphate | -   | 5                 |           | TWA (8 h)     | WEL    |
|           |                           | -   | -                 |           | STEL (15 min) | WEL    |

**Additional advice on limit values**

None known.

**8.2. Exposure controls****Appropriate engineering controls**

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

**Protective and hygiene measures**

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and after work.

**Eye/face protection**

Safety glasses with side-shields

**Hand protection**

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: &gt;480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: &gt; 30 min

**Skin protection**

Avoid contact with skin, eyes and clothing.

**Respiratory protection**

Breathing apparatus only if aerosol or dust is formed.

**Environmental exposure controls**

Should not be released into the environment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: powder  
Colour: white  
Odour: odourless

**Test method**

pH-Value (at 20 °C): 4,9 (5 % solution)

**Changes in the physical state**

Melting point: 230 °C

Initial boiling point and boiling range: not applicable

according to Regulation (EC) No 1907/2006

**26151-99 Phthalate-Phosphate Reagent**

Print date: 20.07.2015

Product code: 2615199

Page 5 of 9

|                    |                   |
|--------------------|-------------------|
| Sublimation point: | no data available |
| Softening point:   | no data available |
| Pour point:        | no data available |
| :                  | no data available |
| Flash point:       | not applicable    |

**Flammability**

|        |                   |
|--------|-------------------|
| Solid: | no data available |
| Gas:   | not applicable    |

**Explosive properties**

no data available

|                         |                   |
|-------------------------|-------------------|
| Lower explosion limits: | not applicable    |
| Upper explosion limits: | not applicable    |
| Ignition temperature:   | no data available |

**Auto-ignition temperature**

|        |                   |
|--------|-------------------|
| Solid: | no data available |
| Gas:   | not applicable    |

|                            |                   |
|----------------------------|-------------------|
| Decomposition temperature: | no data available |
|----------------------------|-------------------|

**Oxidizing properties**

no data available

|                                 |                   |
|---------------------------------|-------------------|
| Vapour pressure:                | no data available |
| Vapour pressure:                | no data available |
| Density (at 20 °C):             | 1,74 g/cm³        |
| Bulk density:                   | no data available |
| Water solubility:<br>(at 20 °C) | soluble           |

**Solubility in other solvents**

no data available

|                          |                   |
|--------------------------|-------------------|
| Partition coefficient:   | no data available |
| Viscosity / dynamic:     | no data available |
| Viscosity / kinematic:   | no data available |
| Flow time:               | no data available |
| Vapour density:          | no data available |
| Evaporation rate:        | no data available |
| Solvent separation test: | no data available |
| Solvent content:         | no data available |

**9.2. Other information**

|                |                   |
|----------------|-------------------|
| Solid content: | no data available |
|----------------|-------------------|

no data available

**SECTION 10: Stability and reactivity**
**10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**

The product is chemically stable.

according to Regulation (EC) No 1907/2006

**26151-99 Phthalate-Phosphate Reagent**

Print date: 20.07.2015

Product code: 2615199

Page 6 of 9

**10.3. Possibility of hazardous reactions**

Hazardous polymerisation does not occur.

**10.4. Conditions to avoid**

 Extremes of temperature and direct sunlight.  
 Exposure to moisture.

**10.5. Incompatible materials**

Oxidizing agents

**10.6. Hazardous decomposition products**

Oxides of phosphorus, Carbon oxides

**Further information**

Stable under recommended storage conditions.

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

No data is available on the product itself.

**ATEmix calculated**

ATE (dermal) 1298,7 mg/kg

| CAS No    | Chemical name                   |        |             |            |        |
|-----------|---------------------------------|--------|-------------|------------|--------|
|           | Exposure routes                 | Method | Dose        | Species    | Source |
| 877-24-7  | Potassium hydrogen phthalate    |        |             |            |        |
|           | oral                            | LD50   | 3200 mg/kg  | rat        | RTECS  |
|           | dermal                          | LD50   | >1000 mg/kg | guinea pig |        |
| 7722-88-5 | Sodium pyrophosphate tetrabasic |        |             |            |        |
|           | oral                            | LD50   | 3770 mg/kg  | rat        |        |
|           | dermal                          | LD50   | 7940 mg/kg  | rabbit     |        |

**Irritation and corrosivity**

May cause eye irritation.

**Sensitising effects**

No known effect.

**STOT-single exposure**

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. (Sodium pyrophosphate tetrabasic)

**Severe effects after repeated or prolonged exposure**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

Contains no ingredient listed as a carcinogen

**Aspiration hazard**

No aspiration toxicity classification

**Specific effects in experiment on an animal**

No toxicology information is available.

**Additional information on tests**

None known.

**Practical experience**

according to Regulation (EC) No 1907/2006

**26151-99 Phthalate-Phosphate Reagent**

Print date: 20.07.2015

Product code: 2615199

Page 7 of 9

**Observations relevant to classification**

None known.

**Other observations**

None known.

**Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

**SECTION 12: Ecological information**
**12.1. Toxicity**

No data is available on the product itself.

| CAS No    | Chemical name                   |        |           |           |         |        |
|-----------|---------------------------------|--------|-----------|-----------|---------|--------|
|           | Aquatic toxicity                | Method | Dose      | [h]   [d] | Species | Source |
| 7722-88-5 | Sodium pyrophosphate tetrabasic |        |           |           |         |        |
|           | Acute fish toxicity             | LC50   | 1380 mg/l | 96 h      |         |        |
|           | Acute crustacea toxicity        | EC50   | 391 mg/l  | 48 h      |         |        |

**12.2. Persistence and degradability**

No data is available on the product itself.

**12.3. Bioaccumulative potential**

no data available

**12.4. Mobility in soil**

no data available

**12.5. Results of PBT and vPvB assessment**

no data available

**12.6. Other adverse effects**

No known effect.

**Further information**

No known effect.

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**
**Advice on disposal**

In accordance with local and national regulations.

**Waste disposal number of waste from residues/unused products**

 160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals  
 Classified as hazardous waste.

**Waste disposal number of used product**

 160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals  
 Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

 160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals  
 Classified as hazardous waste.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 26151-99 Phthalate-Phosphate Reagent

Print date: 20.07.2015

Product code: 2615199

Page 8 of 9

#### Contaminated packaging

Dispose of as unused product.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

##### Other applicable information (land transport)

Not subject to transport regulations.

#### Inland waterways transport (ADN)

##### Other applicable information (inland waterways transport)

Not tested

#### Marine transport (IMDG)

##### Other applicable information (marine transport)

Not subject to transport regulations.

#### Air transport (ICAO)

##### Other applicable information (air transport)

Not subject to transport regulations.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

no data available

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 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 regulatory information

##### Additional information

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

##### National regulatory information

Water contaminating class (D): 2 - water contaminating

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

Revision: 30.04.2015

Safety datasheet sections which have been updated: 2, 4, 11

Revision: 20.10.2014

Safety datasheet sections which have been updated: 4 - 16

#### Relevant H- and EUH-phrases (Number and full text)

|      |                                   |
|------|-----------------------------------|
| H312 | Harmful in contact with skin.     |
| H319 | Causes serious eye irritation.    |
| H335 | May cause respiratory irritation. |

#### 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.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 26151-99 Phthalate-Phosphate Reagent

Print date: 20.07.2015

Product code: 2615199

Page 9 of 9

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