

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**2105569 DPD Free Chlorine Reagent**

Revision date: 10.06.2015

Product code: 2105569

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

2105569 DPD Free Chlorine Reagent

**1.2. Relevant identified uses of the substance or mixture and uses advised against****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  
Unit 1, Chestnut Road Western Industrial Estate  
Dublin 12 - Ireland  
Tel. +353 (0)1 4602522 \* +353 (0)1 4509337  
info-ie@hach.com

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Carboxylate salt (confidential)

di-Sodium hydrogen phosphate

Ethylenedinitrilotetraacetic acid disodium salt dihydrate

Salt of N,N-Diethyl-p-Phenylenediamine

**Signal word:** Warning**Pictograms:****Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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**Additional advice on labelling**

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

**2.3. Other hazards**

This information is not 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] |          |          |          |
| -         | Carboxylate salt (confidential)                                 |          |          | 55-60 %  |
|           | -   |          |          |          |
|           |   |          |          |          |
| 7558-79-4 | di-Sodium hydrogen phosphate                                    |          |          | 30-40 %  |
|           | 231-448-7   |          |          |          |
|           | Skin Irrit. 2, Eye Irrit. 2; H315 H319                          |          |          |          |
|           | Salt of N,N-Diethyl-p-Phenylenediamine                          |          |          | 1-5 %    |
|           | 439-010-9   |          |          |          |
|           | Acute Tox. 4, Eye Irrit. 2, Aquatic Chronic 3; H302 H319 H412   |          |          |          |
| 6381-92-6 | Ethylenedinitrilotetraacetic acid disodium salt dihydrate       |          |          | 1-10 %   |
|           | 205-358-3   |          |          |          |
|           | Eye Irrit. 2; H319  |          |          |          |

Full text of H and EUH statements: 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 for at least 15 minutes.

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.

**After ingestion**

Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person.

**4.2. Most important symptoms and effects, both acute and delayed**

May cause eye and skin irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures**

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**5.1. Extinguishing media****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

**Unsuitable extinguishing media**

No Limit

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

In the event of fire the following can be released: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

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

**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.

Only qualified personnel equipped with suitable protective equipment may intervene.

Immediately evacuate personnel to safe areas.

Do not breathe vapours, mist or gas.

Ensure adequate ventilation.

**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.

Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

**6.4. Reference to other sections**

13. Disposal considerations

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Use only in well-ventilated areas.

Avoid contact with skin and eyes.

**Advice on protection against fire and explosion**

None known.

See also section 5

**Further information on handling**

Observe label precautions.

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

Keep in a dry, cool place.

Storage temperature: 10-25 °C

Keep containers dry and tightly closed to avoid moisture absorption and contamination.

**Advice on storage compatibility**

None known.

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

Laboratory chemicals

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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

None known.

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

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

Handle in accordance with good industrial hygiene and safety practice.

**Protective and hygiene measures**

General industrial hygiene practice.

**Eye/face protection**

Safety glasses with side-shields

**Hand protection**

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

**Skin protection**

Avoid contact with skin and eyes.

Remove and wash contaminated clothing before re-use.

**Respiratory protection**

Avoid breathing dust or vapour.

Provide adequate ventilation.

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

|                 |                    |
|-----------------|--------------------|
| Physical state: | powder             |
| Colour:         | white , light pink |
| Odour:          | odourless          |

**Test method**

|                      |                     |
|----------------------|---------------------|
| pH-Value (at 25 °C): | 6,35 (1 % solution) |
|----------------------|---------------------|

**Changes in the physical state**

|  |                   |
|--|-------------------|
| Melting point:                           | no data available |
| Initial boiling point and boiling range: | not applicable    |
| Sublimation point:                       | no data available |
| Softening point:                         | no data available |
| Pour point:                              | not applicable    |
| :  | not applicable    |
| Flash point:                             | not applicable    |

**Flammability**

|        |                   |
|--------|-------------------|
| Solid: | no data available |
| Gas:   | no data available |

**Explosive properties**

Not explosive

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

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**Auto-ignition temperature**

Solid:

no data available

Gas:

no data available

Decomposition temperature:

110 °C

**Oxidizing properties**

no data available

Vapour pressure:

no data available

Vapour pressure:

no data available

Density (at 20 °C):

1,76 g/cm³

Bulk density:

no data available

Water solubility:  
(at 20 °C)

completely soluble

**Solubility in other solvents**

no data available

Partition coefficient:

not applicable

Viscosity / dynamic:

not applicable

Viscosity / kinematic:

not applicable

Flow time:

not applicable

Vapour density:

not applicable

Evaporation rate:

not applicable

Solvent separation test:

not applicable

Solvent content:

not applicable

**9.2. Other information**

Solid content:

not applicable

no data available

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

No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous polymerisation does not occur.

**10.4. Conditions to avoid**

Extremes of temperature and direct sunlight.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

To avoid thermal decomposition, do not overheat.

Decomposition products: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), Oxides of phosphorus**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

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### Toxicokinetics, metabolism and distribution

Angaben zur Toxikologie liegen nicht vor.

### Acute toxicity

No data is available on the product itself.

| CAS No    | Chemical name   |               |         |        |        |
|-----------|---|---------------|---------|--------|--------|
|           | Exposure route  | Dose          | Species | Source | Method |
| 7558-79-4 | di-Sodium hydrogen phosphate                              |               |         |        |        |
|           | oral  | LD50<br>mg/kg | 17000   | rat    |        |
|           | Salt of N,N-Diethyl-p-Phenylenediamine                    |               |         |        |        |
|           | oral  | LD50<br>mg/kg | 970     | rat    |        |
| 6381-92-6 | Ethylenedinitrilotetraacetic acid disodium salt dihydrate |               |         |        |        |
|           | oral  | LD50<br>mg/kg | >2000   | rat    |        |

### Irritation and corrosivity

May cause eye and skin irritation.

### Sensitising effects

No known effect.

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

### STOT-single exposure

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

### STOT-repeated exposure

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

### Aspiration hazard

No aspiration toxicity classification

### Specific effects in experiment on an animal

No toxicology information is available.

### 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.

Do not flush into surface water or sanitary sewer system.

| CAS No    | Chemical name   |              |           |         |                                |        |
|-----------|---|--------------|-----------|---------|--------------------------------|--------|
|           | Aquatic toxicity  | Dose         | [h]   [d] | Species | Source                         | Method |
| 7558-79-4 | di-Sodium hydrogen phosphate                              |              |           |         |                                |        |
|           | Acute crustacea toxicity                                  | EC50<br>mg/l | 1089      | 48 h    | Daphnia magna<br>(Water flea)  |        |
| 6381-92-6 | Ethylenedinitrilotetraacetic acid disodium salt dihydrate |              |           |         |                                |        |
|           | Acute fish toxicity                                       | LC50         | 320 mg/l  | 96 h    | Poecilia reticulata<br>(guppy) | IUCLID |
|           | Acute algae toxicity                                      | ErC50        | 10-100    | 72 h    |                                |        |

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**12.2. Persistence and degradability**

No data is available on the product itself.

**12.3. Bioaccumulative potential**

No data is available on the product itself.

**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 data available

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

Dispose of in accordance with the European Directives on waste and hazardous waste.

**Contaminated packaging**

Dispose of as unused product.

The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

**SECTION 14: Transport information****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 Marpol 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): 1 - slightly 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: 10.06.2015

Safety datasheet sections which have been updated: 4, 11

Revision: 21.04.2015

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

Revision: 25.03.2015

Safety datasheet sections which have been updated: 13

Revision: 13.06.2013

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#### Relevant H and EUH statements (number and full text)

|      |  |
|------|--|
| H302 | Harmful if swallowed.                              |
| H315 | Causes skin irritation.                            |
| H319 | Causes serious eye irritation.                     |
| H412 | Harmful to aquatic life with long lasting effects. |

#### 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.

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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.)*