

according to Regulation (EC) No 1907/2006

## 2105545 DPD Free Chlorine Reagent

Revision date: 03.01.2019

Product code: 2105545

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

## 1.1. Product identifier

2105545 DPD Free Chlorine 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: Street: Place:	HACH LANGE GmbH Willstätterstr. 11 D-40549 Düsseldorf
Telephone: e-mail: Internet: Responsible Department:	+49 (0)211 5288-383 SDS@hach.com www.de.hach.com HACH LANGE Ltd. 5, Pacific Way Salford Manchester M50 1DL - United Kingdom Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324 e-Mail: info-uk@hach.com
	HACH LANGE Ltd. Unit 1, Chestnut Road Western Industrial Estate IRL-Dublin 12 Tel. +353 (0)1 4602522 e-Mail: info-ie@hach.com
<u>1.4. Emergency telephone</u> 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

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.

## 2.2. Label elements

## Regulation (EC) No. 1272/2008

Hazard components for labelling N,N-Diethylphenylendiammonium salt di-Sodium hydrogen phosphate

Causes serious eye irritation.

Signal word: Pictograms:





Warning

## Hazard statements H315

Causes skin irritation.



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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.

### Additional advice on labelling

The product does not need to be labelled in accordance with EC directives or respective national laws. 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				
	EC No	Index No	REACH No		
	Classification according to Regulat				
confidential	Salt of aliphatic acid			60 - < 65 %	
	-				
	Eye Irrit. 2; H319				
7558-79-4	di-Sodium hydrogen phosphate			35 - < 40 %	
	231-448-7				
	Skin Irrit. 2, Eye Irrit. 2; H315 H319				
confidential	N,N-Diethylphenylendiammonium	1 - < 5 %			
	439-010-9				
	Acute Tox. 4, Eye Irrit. 2, Aquatic C	hronic 3; H302 H319 H4 <sup>-</sup>	2		
6381-92-6	Ethylenedinitrilotetraacetic acid dis	1 - < 5 %			
	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.



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## 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**

## 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

Fire may liberate hazardous vapours.

In the event of fire the following can be released: Carbon monoxide, Carbon dioxide (CO2)

### 5.3. Advice for firefighters

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

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.

### 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. Use mechanical handling equipment.

## 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



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## 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.

## Hints on joint storage

None known.

### 7.3. Specific end use(s)

Laboratory chemicals Reagent for analysis

### **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

Wash hands before breaks and after work. General industrial hygiene practice.

### 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: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

### 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: Colour: Odour:	powder white , light pink odourless	
pH-Value (at 20 °C):		6,35 (1 % solution)
Changes in the physical state Melting point:		no data available



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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	
Auto-ignition temperature		
Solid: Gas:	no data available	
	no data available 110 °C	
Decomposition temperature:		
Oxidizing properties no data available		
Vapour pressure:	no data available	
Vapour pressure:	no data available	
Density (at 20 °C):	1,76 g/cm <sup>3</sup>	
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:	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

Stable under recommended storage conditions.



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### 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 (CO2), nitrogen oxides (NOx), Oxides of phosphorus

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

### Toxicocinetics, metabolism and distribution

Angaben zur Toxikologie liegen nicht vor.

#### Acute toxicity

Based on available data, the classification criteria are not met. 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				
		LD50 17000 mg/kg	rat		
confidential	N,N-Diethylphenylendiammonium salt				
	oral	LD50 970 mg/kg	rat		
6381-92-6	Ethylenedinitrilotetraacetic acid disodium salt dihydrate				
		LD50 >2000 mg/kg	rat		

## Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

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

### STOT-single exposure

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

#### STOT-repeated exposure

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

## Aspiration hazard

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



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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	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
7558-79-4	di-Sodium hydrogen phosphate							
	Acute crustacea toxicity	EC50 mg/l	1089		Daphnia magna (Water flea)			
	Ethylenedinitrilotetraacetic acid disodium salt dihydrate							
6381-92-6	Ethylenedinitrilotetraaceti	c acid disoc	lium salt dihyo	drate				
6381-92-6	Ethylenedinitrilotetraaceti Acute fish toxicity	c acid disoc LC50	lium salt dihyo 320 mg/l	96 h	Poecilia reticulata (guppy)	IUCLID		

### 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

In accordance with local and national regulations.

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**

### 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-TI/IATA-DGR)



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# 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 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):

3 - highly 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: 03.01.2018 Safety datasheet sections which have been updated: 3, 11, 15 Revision: 27.05.2015 Safety datasheet sections which have been updated: 2, 4, 11 Revision: 13.06.2013

### 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.

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