

# SAFETY DATA SHEET

Issue Date 28-May-2021 Revision Date Version 8.700001 Page 1 / 13

10-Aug-2021

# 1. IDENTIFICATION

**Product identifier** 

Product Name DPD Free Chlorine Reagent

Other means of identification

Product Code(s) 1407099

Safety data sheet number M00109

HMRIC # HMIRA Registry Number 9935 Filed 2016-04-11

Recommended use of the chemical and restrictions on use

**Recommended Use** Water Analysis. Determination of chlorine.

Uses advised against Consumer use.

**Restrictions on use**Please refer to the product labeling and packaging for information about appropriate use.

## Details of the supplier of the safety data sheet

### **Manufacturer Address**

Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

## Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

# 2. HAZARDS IDENTIFICATION

### Classification

## **Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Skin corrosion/irritation         | Category 2  |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |

## Hazards not otherwise classified (HNOC)

Not applicable

# Label elements

### Signal word

Warning

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#### **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

### **Precautionary statements**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical attention

P362 - Take off contaminated clothing and wash before reuse

P280 - Wear protective gloves, protective clothing, eye protection, and face protection

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 attention

### Other Hazards Known

None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable

#### **Mixture**

Chemical Family Mixture.

Chemical nature No information available.

| Chemical name                          | CAS No    | Percent<br>Range | HMRIC # |
|--|-----------|------------------|---------|
| Carboxylate Salt                       | -         | 60 - 70%         | -       |
| Phosphoric acid, disodium salt         | 7558-79-4 | 30 - 40%         | -       |
| Salt of N,N-Diethyl-p-Phenylenediamine | -         | 1 - 5%           | -       |

## 4. FIRST AID MEASURES

## **Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing.

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Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

surrounding environment.

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

No information available.

Hazardous combustion products Carbon monoxide, Carbon dioxide. Phosphorus oxides. Nitrogen oxides.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**U.S. Notice**Only persons properly qualified to respond to an emergency involving hazardous

substances may respond to a spill according to federal regulations (OSHA 29 CFR

1910.120(a)(v)) and per your company's emergency response plan and

guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations

should respond to a spill involving chemicals.

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

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Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

Flammability class Not applicable

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

**Engineering Controls** 

**Showers** 

Eyewash stations

Ventilation systems. Technical measures and appropriate working operations should be

given priority over the use of personal protective equipment.

Individual protection measures, such as personal protective equipment

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hand Protection** Wear suitable gloves. Impervious gloves. Gloves must be inspected prior to use. The

selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or

nitrile rubber category III according to EN 374-1:2016.

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

General Hygiene Considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Do not

allow into any sewer, on the ground or into any body of water.

**Thermal hazards** None under normal processing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid

AppearancepowderColorWhite to light pinkOdorOdorlessOdor thresholdNo data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Molecular weight No data available

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pН 6.3 1% @ 20°C

110 °C / 230 °F Melting point/freezing point Boiling point / boiling range No data available

Not applicable **Evaporation rate** 

Vapor pressure Not applicable

No data available Relative vapor density

1.76 Specific gravity (water = 1 / air = 1)

Partition Coefficient (n-octanol/water) log Kow ~ 0 log Koc ~ 0

**Soil Organic Carbon-Water Partition** 

**Autoignition temperature** 

Coefficient

No data available

110 °C / 230 °F **Decomposition temperature** 

**Dynamic viscosity** Not applicable

Not applicable Kinematic viscosity

Solubility(ies)

## Water solubility

| Water solubility classification | Water solubility_ | Water Solubility Temperature |
|---------------------------------|-------------------|------------------------------|
| Completely soluble              | > 10000 mg/L      | 25 °C / 77 °F                |

## Solubility in other solvents

| Chemical Name_ | mical Name Solubility classification Solubility |             | Solubility Temperature_ |
|----------------|---|-------------|-------------------------|
| Acid           | Soluble   | > 1000 mg/L | 25 °C / 77 °F           |

## **Other information**

### **Metal Corrosivity**

**Steel Corrosion Rate** No data available No data available **Aluminum Corrosion Rate** 

# **Volatile Organic Compounds (VOC) Content**

Not applicable

| Chemical name                  | CAS No    | Volatile organic        | CAA (Clean Air Act) |
|--------------------------------|-----------|-------------------------|---------------------|
|                                |           | compounds (VOC) content |                     |
| Carboxylate Salt               | -         | No data available       | -                   |
| Phosphoric acid, disodium salt | 7558-79-4 | No data available       | -                   |
| Salt of                        | -         | Not applicable          | -                   |
| N,N-Diethyl-p-Phenylenediamine |           |                         |                     |

## **Explosive properties**

Upper explosion limit No data available Lower explosion limit No data available

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Flammable properties

Flash point Not applicable

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

Bulk density

No data available

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not applicable.

## Chemical stability

Stable under normal conditions.

### **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

## Possibility of hazardous reactions

None under normal processing.

## **Hazardous polymerization**

None under normal processing.

### Conditions to avoid

None known based on information supplied.

# **Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents.

### Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Phosphorus oxides. Nitrogen oxides.

# 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

### **Product Information**

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** Irritating to eyes. Causes serious eye irritation.

**Skin contact** Causes skin irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms** Redness. May cause redness and tearing of the eyes.

### **Acute toxicity**

Based on available data, the classification criteria are not met

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**Product Acute Toxicity Data** 

No data available.

**Ingredient Acute Toxicity Data** 

Test data reported below.

## **Oral Exposure Route**

| Chemical name  | Endpoint type | Reported dose | Exposure time    | Toxicological effects | Key literature references and sources for data |
|--|---------------|---------------|------------------|-----------------------|--|
| Salt of<br>N,N-Diethyl-p-Phenyl<br>enediamine<br>(1 - 5%)<br>CAS#: - | Rat<br>LD₅o   | 695 mg/kg     | None<br>reported | None reported         | Outside testing                                |

| Chemical name  | Endpoint type    | Reported dose    | Exposure time    | Toxicological effects | Key literature references and sources for data |
|--|------------------|------------------|------------------|-----------------------|--|
| Salt of<br>N,N-Diethyl-p-Phenyl<br>enediamine<br>(1 - 5%)<br>CAS#: - | None<br>reported | None<br>reported | None<br>reported | None reported         | No information available                       |

### **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

## **Acute Toxicity Estimations (ATE)**

# The following values are calculated based on chapter 3.1 of the GHS document

| ATEmix (oral)                 | 19,881.00 mg/kg          |  |  |  |
|-------------------------------|--------------------------|--|--|--|
| ATEmix (dermal)               | No information available |  |  |  |
| ATEmix (inhalation-dust/mist) | No information available |  |  |  |
| ATEmix (inhalation-vapor)     | No information available |  |  |  |
| ATEmix (inhalation-gas)       | No information available |  |  |  |

# Skin corrosion/irritation

Classification based on data available for ingredients. Irritating to skin.

## **Product Skin Corrosion/Irritation Data**

No data available.

## Ingredient Skin Corrosion/Irritation Data

Test data reported below.

| Chemical name  | Test method             | Species | Reported<br>dose | Exposure<br>time | Results       | Key literature references and sources for data                 |
|--|-------------------------|---------|------------------|------------------|---------------|--|
| Phosphoric acid,<br>disodium salt<br>(30 - 40%)<br>CAS#: 7558-79-4 | Standard Draize<br>Test | Rabbit  | 500 mg           | 24 hours         | Skin irritant | RTECS (Registry of<br>Toxic Effects of<br>Chemical Substances) |

# Serious eye damage/irritation

Classification based on data available for ingredients. Irritating to eyes.

# **Product Serious Eye Damage/Eye Irritation Data**

No data available.

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## Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

| Chemical name  | Test method             | Species | Reported<br>dose | Exposure<br>time | Results      | Key literature<br>references and<br>sources for data           |
|--|-------------------------|---------|------------------|------------------|--------------|--|
| Phosphoric acid,<br>disodium salt<br>(30 - 40%)<br>CAS#: 7558-79-4 | Standard Draize<br>Test | Rabbit  | 500 mg           | 24 hours         | Eye irritant | RTECS (Registry of<br>Toxic Effects of<br>Chemical Substances) |

## Respiratory or skin sensitization

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

### **Product Sensitization Data**

No data available.

## **Ingredient Sensitization Data**

No data available.

## **STOT - single exposure**

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

# **Product Specific Target Organ Toxicity Single Exposure Data**

No data available.

## **Ingredient Specific Target Organ Toxicity Single Exposure Data**

No data available.

## STOT - repeated exposure

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

# **Product Specific Target Organ Toxicity Repeat Dose Data**

No data available.

# Ingredient Specific Target Organ Toxicity Repeat Exposure Data

No data available.

## Carcinogenicity

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

### **Product Carcinogenicity Data**

No data available.

### **Ingredient Carcinogenicity Data**

No data available.

| Chemical name                                 | CAS No    | ACGIH | IARC | NTP | OSHA |
|---|-----------|-------|------|-----|------|
| Carboxylate Salt                              | -         | -     | -    | -   | -    |
| Phosphoric acid, disodium salt                | 7558-79-4 | -     | -    | -   | -    |
| Salt of<br>N,N-Diethyl-p-Phenylenedi<br>amine | -         | -     | -    | -   | -    |

### Legend

| ACGIH (American Conference of Governmental Industrial Hygienists) | Does not apply |
|---|----------------|
| IARC (International Agency for Research on Cancer)                | Does not apply |

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| NTP (National Toxicology Program)   | Does not apply |
|---|----------------|
| OSHA (Occupational Safety and Health Administration of the US Department of | Does not apply |
| Labor)  | ·              |

### **Germ cell mutagenicity**

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

### Product Germ Cell Mutagenicity invitro Data

No data available.

## Ingredient Germ Cell Mutagenicity invitro Data

Test data reported below.

### Product Germ Cell Mutagenicity invivo Data

No data available.

## Ingredient Germ Cell Mutagenicity invivo Data

No data available.

### Reproductive toxicity

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

## **Product Reproductive Toxicity Data**

No data available.

### **Ingredient Reproductive Toxicity Data**

No data available.

### **Aspiration hazard**

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

## 12. ECOLOGICAL INFORMATION

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

Unknown aquatic toxicity 0 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

## **Product Ecological Data**

## **Aquatic Acute Toxicity**

No data available.

# **Aquatic Chronic Toxicity**

No data available.

# **Ingredient Ecological Data**

### **Aquatic Acute Toxicity**

Test data reported below.

**Fish** 

### Crustacea

| Chemical name | Exposure time | Species       | Endpoint type    | Reported dose | Key literature references and sources for data |
|---------------|---------------|---------------|------------------|---------------|--|
| Salt of       | 48 Hours      | Daphina magna | EC <sub>50</sub> | 10.8 mg/L     | Internal Data                                  |

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| N,N-Diethyl-p-Phenyl |  |  |  |
|----------------------|--|--|--|
| enediamine           |  |  |  |
| (1 - 5%)             |  |  |  |
| CAS#: -              |  |  |  |

### **Algae**

**Aquatic Chronic Toxicity** 

No data available.

Persistence and degradability

**Product Biodegradability Data** 

No data available.

Bioaccumulation

MATERIAL DOES NOT BIOACCUMULATE

**Product Bioaccumulation Data** 

No data available.

Partition Coefficient (n-octanol/water) log Kow ~ 0

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient log K∞ ~ 0

Other adverse effects
No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

US EPA Waste Number Not applicable

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

<u>IATA</u> Not regulated

IMDG Not regulated

**Note:** No special precautions necessary.

Additional information

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# 15. REGULATORY INFORMATION

**National Inventories** 

TSCA Complies DSL/NDSL Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### International Inventories

| EINECS/ELINCS              | Complies |
|----------------------------|----------|
| ENCS                       | Complies |
| IECSC                      | Complies |
| KECL - Existing substances | Complies |
| PICCS                      | Complies |
| TCSI                       | Complies |
| AICS                       | Complies |
| NZIoC                      | Complies |

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

**AICS** - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

## **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

## **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name                                  | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority<br>Pollutants | CWA - Hazardous<br>Substances |
|--|--------------------------------|------------------------|------------------------------|-------------------------------|
| Phosphoric acid,<br>disodium salt<br>7558-79-4 | 5000 lb                        | -                      | -                            | X                             |

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name                  | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|--------------------------------|--------------------------|----------------|--------------------------|
| Phosphoric acid, disodium salt | 5000 lb                  | -              | RQ 5000 lb final RQ      |
| 7558-79-4                      |                          |                | RQ 2270 kg final RQ      |

## **US State Regulations**

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### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

IMERC: Not applicable

New Jersey Trade Secret Registry Number 80100131-5001 (Carboxylate Salt) New Jersey Trade Secret Registry Number 80100131-5002 (DPD Salt) New York Trade Secret Registry Number 478 (DPD Salt) New York Trade Secret Registry Number 479 (Carboxylate Salt) This product complies with Pennsylvania Trade Secret Regulations. This product is registered as a trade secret in the state of Illinois. This product is registered as a trade secret in the state of Massachusetts. This product is registered as a trade secret in the state of New York.

## **U.S. State Right-to-Know Regulations**

This product may contain substances regulated by state right-to-know regulations.

| Chemical name                  | New Jersey | Massachusetts | Pennsylvania |
|--------------------------------|------------|---------------|--------------|
| Phosphoric acid, disodium salt | X          | X             | X            |
| 7558-79-4                      |            |               |              |

### **U.S. EPA Label Information**

| Chemical name                  | FIFRA    | FDA  |
|--------------------------------|----------|--|
| Phosphoric acid, disodium salt | 180.0910 | 21 CFR 182.1778,21 CFR 182.6290,21<br>CFR 182.6778,21 CFR 182.8778 |

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

## **Special Comments**

None

### **Additional information**

### Global Automotive Declarable Substance List (GADSL)

Not applicable

## NFPA and HMIS Classifications

| NFPA | Health hazards - 2 | Flammability - 0 | Instability - 0      | Physical and chemical |
|------|--------------------|------------------|----------------------|-----------------------|
|      |                    |                  |                      | properties -          |
| HMIS | Health hazards - 2 | Flammability - 0 | Physical hazards - 0 | Personal protection - |
|      |                    | -                | -                    | X                     |
|      |                    |                  |                      | - I                   |

### Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH Immediately Dangerous to Life or Health

ACGIH ACGIH (American Conference of Governmental Industrial Hygienists)

NDF no data

### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

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X Listed Vacated These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

SKN\* Skin designation SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

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Revision Note None

### **Disclaimer**

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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**End of Safety Data Sheet** 

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