

# SAFETY DATA SHEET

Distributed by:

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# Section 1: Identification: Product identifier and chemical identity

**Product identifier** 

**DPD Free Chlorine Reagent Product Name** 

1407099 Product Code(s)

Other means of identification

Safety data sheet number M00109

Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory Use. Determination of Free Chlorine.

Uses advised against No information available

Details of manufacturer or importer

Manufacturer

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

HACH Pacific 26 Brindley Street Dandenong South, 3175 AU Tel: 1300 887 735

Emergency telephone number

13 11 26

# Section 2: Hazard(s) identification

### **GHS Classification**

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2A - (H319)

#### Label elements

**Exclamation mark** 



Signal word - Warning

**Hazard statements** 

H315 - Causes skin irritation

H319 - Causes serious eye irritation

**EU Specific Hazard Statements** 

EN / UGHS

Page 1/13

Not applicable

**Precautionary statements** 

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

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

P362 - Take off contaminated clothing and wash before reuse

P280 - Wear protective gloves/protective clothing/eye protection/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 rinsina

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

#### Other hazards

No information available

# Section 3: Composition and information on ingredients, in accordance with Schedule 8

**Chemical Family** Mixture

Substance

Not applicable

#### Mixture

Chemical name	Formula	CAS No.	EC No.	Percent Range
Sodium phosphate dibasic	Na <sub>2</sub> HPO <sub>4</sub>	7558-79-4	231-448-7	30 - 40%
DPD Salt	No information available	-	-	1 - 5%
Disodium EDTA	C10H14N2Na2O8	139-33-3	205-358-3	1 - 5%

# **Section 4: FIRST AID MEASURES**

**Emergency telephone number** 

Poisons Information Center, Australia: 13 11 26

Description of necessary 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.

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

attention if irritation develops and persists.

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.

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.

For emergency responders

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). Self-protection of the first aider

Most important symptoms/effects, acute and delayed Burning sensation. **Symptoms** 

Indication of immediate medical attention and special treatment needed, if necessary

Note to physicians Treat symptomatically.

Page 2/13 EN / UGHS

# **Section 5: Firefighting measures**

Suitable Extinguishing Media

surrounding environment.

Unsuitable Extinguishing Media No information available

Specific hazards arising from the chemical

Specific hazards arising from the

No information available.

chemical

Flammable properties

Can burn in fire, releasing toxic vapors.

**Explosive properties** 

Not classified according to GHS criteria.

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

Specific/special fire-fighting measures

Specific/special fire-fighting

No information available.

measures

Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters

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

Revision Date 12-Feb-2018

gear. Use personal protection equipment.

### Section 6: ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate

affected area. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as

required.

Sections 7 and 8.

**Environmental precautions** 

See Section 12 for additional ecological information. 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. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal. Clean contaminated

surface thoroughly. Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating dust.

Precautions to prevent secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations. See section 8 for more information. See section 13 for more information.

EN / UGHS Page 3/13

# Section 7: Handling and storage, including how the chemical may be safely used

Preventive measures for safe handling

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

Revision Date 12-Feb-2018

contaminated clothing and wash before reuse.

Precautions for safe handling

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.

Conditions for safe storage, including any incompatibilities

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

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

# Section 8: Exposure controls and personal protection

**Control parameters** 

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

exposure limits established by the region specific regulatory bodies.

**Legend** See section 16 for terms and abbreviations

Appropriate engineering controls

**Engineering Controls** 

Showers

Eyewash stations Ventilation systems.

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.

**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.

Solid

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Physical state

AppearancepowderColorWhite to light pinkOdorOdorlessOdor thresholdNo data available

EN / UGHS Page 4/13

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

Molecular weight No data available

**pH** 6.3 1% Solution

Melting point/freezing pointNo data availableBoiling point / boiling rangeNo data availableEvaporation rateNot applicableVapor pressureNot applicable

Vapor density (air = 1) Not applicable

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

Partition Coefficient (n-octanol/water)  $\log K_{ow} \sim 0$ Soil Organic Carbon-Water Partition  $\log K_{oc} \sim 0$ 

Coefficient

Autoignition temperature No data available

Decomposition temperature110 °C / 230 °FDynamic viscosityNot applicable

Kinematic viscosity Not applicable

Solubility(ies)

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

# Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

### **Other Information**

**Metal Corrosivity** 

Steel Corrosion RateNot applicableAluminum Corrosion RateNot applicable

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

Not applicable

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Sodium phosphate dibasic	7558-79-4	No data available	-
DPD Salt	-	Not applicable	-
Disodium EDTA	139-33-3	No data available	-

### **Explosive properties**

Upper explosion limitNo data availableLower explosion limitNo data available

EN / UGHS Page 5/13

#### Flammable properties

Flash point Not applicable

Method No information available

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

Particle Size No information available

Particle Size Distribution No information available

# **Section 10: STABILITY AND REACTIVITY**

#### Reactivity

Not applicable.

**Chemical stability** 

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

#### Hazardous polymerization

None under normal processing.

Conditions to avoid

**Conditions to avoid** None known based on information supplied.

Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

### **Hazardous Decomposition Products**

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

# Section 11: TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

**Product Information** 

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

**Eye contact** 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.

Aggravated Medical Conditions Skin disorders. Eye disorders.

EN / UGHS Page 6/13

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Toxicologically synergistic

None known.

products

Toxicokinetics, metabolism and See ingredients information below.

distribution

Chemical name	Toxicokinetics, metabolism and distribution
Sodium phosphate dibasic (30 - 40%) CAS#: 7558-79-4	Phosphates are widely utilized by cells for metabolism of proteins, fats and carbohydrates.
Disodium EDTA (1 - 5%) CAS#: 139-33-3	EDTA and related compounds are poorly absorbed by the digestive system.

**Product Acute Toxicity Data** 

Oral Exposure RouteNo data availableDermal Exposure RouteNo data availableInhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data availableInhalation (Gas) Exposure RouteNo data 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

### **Ingredient Acute Toxicity Data**

Oral Exposure Route If available, see data below

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
DPD Salt (1 - 5%) CAS#: -	Rat LD <sub>50</sub>	695 mg/kg	None reported	None reported	Outside testing
Disodium EDTA (1 - 5%) CAS#: 139-33-3	Rat LD50	2000 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium phosphate dibasic (30 - 40%) CAS#: 7558-79-4	Rat LD <sub>50</sub>	17000 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Disodium EDTA (1 - 5%) CAS#: 139-33-3	Rabbit LD50	2300 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)

Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see data below If available, see data below If available, see data below If available, see data below

### Product Specific Target Organ Toxicity Single Exposure

EN / UGHS Page 7/13

Data

Oral Exposure RouteNo data availableDermal Exposure RouteNo data availableInhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data availableInhalation (Gas) Exposure RouteNo data available

Ingredient Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route
Dermal Exposure Route
If available, see data below
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below

**Aspiration toxicity** 

If available, see data below

Kinematic viscosity Not applicable

**Product Skin Corrosion/Irritation Data** 

No data available.

### **Ingredient Skin Corrosion/Irritation Data**

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium phosphate dibasic (30 - 40%) CAS#: 7558-79-4	Standard Draize Test	Rabbit	500 mg	24 hours	Skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)
Disodium EDTA (1 - 5%) CAS#: 139-33-3	Standard Draize Test	Rabbit	500 mg	20 hours	Not corrosive or irritating to skin	ECHA (The European Chemicals Agency)

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

No data available.

### **Ingredient Eye Damage/Eye Irritation Data**

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium phosphate dibasic (30 - 40%) CAS#: 7558-79-4	Standard Draize Test	Rabbit	500 mg	24 hours	Eye irritant	RTECS (Registry of Toxic Effects of Chemical Substances)
Disodium EDTA (1 - 5%) CAS#: 139-33-3	Standard Draize Test	Rabbit	50 mg	None reported	Mild eye irritant	ECHA (The European Chemicals Agency)

# **Sensitization Information**

**Product Sensitization Data** 

Skin Sensitization Exposure RouteNo data available.Respiratory Sensitization Exposure RouteNo data available.

**Ingredient Sensitization Data** 

Skin Sensitization Exposure RouteIf available, see data below.Respiratory Sensitization Exposure RouteIf available, see data below.

**Chronic Toxicity Information** 

EN / UGHS Page 8/13

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

Oral Exposure Route
Dermal Exposure Route
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route
No data available.
No data available.
No data available.
No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Oral Exposure Route
Dermal Exposure Route
If available, see data below
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below

**Product Carcinogenicity Data** 

Oral Exposure Route

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

No data available

**Ingredient Carcinogenicity Data** 

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Sodium phosphate dibasic	7558-79-4	-	-	=	-
DPD Salt	-	-	-	-	-
Disodium EDTA	139-33-3	-	-	=	-

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	·

Oral Exposure Route
Dermal Exposure Route
If available, see data below
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below

# Product Germ Cell Mutagenicity invitro Data

No data available.

# Ingredient Germ Cell Mutagenicity invitro Data

If available, see data below

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Disodium EDTA (1 - 5%)	Cytogenetic analysis	Hamster lung	200 mg/L	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of
CAS#: 139-33-3	-			-		Chemical
						Substances)

Product Germ Cell Mutagenicity invivo Data

Oral Exposure Route

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

Inhalation (Gas) Exposure Route

No data available

No data available

No data available

No data available

Ingredient Germ Cell Mutagenicity invivo Data

EN / UGHS Page 9/13

Oral Exposure Route
Dermal Exposure Route
If available, see data below
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
If available, see data below

**Product Reproductive Toxicity Data** 

Oral Exposure Route

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

Inhalation (Gas) Exposure Route

No data available

No data available

No data available

No data available

**Ingredient Reproductive Toxicity Data** 

Oral Exposure Route
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below

# **Section 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Unknown Aquatic Toxicity 0 % of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

**Product Ecological Data** 

**Aquatic toxicity** 

FishNo data availableCrustaceaNo data availableAlgaeNo data available

### **Ingredient Ecological Data**

### **Aquatic toxicity**

Fish If available, see ingredient data below

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Disodium EDTA (1 - 5%)	96 hours	Lepomis macrochirus	LC50	159 mg/L	Vendor SDS
CAS#: 139-33-3					

Crustacea If available, see ingredient data below

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
DPD Salt (1 - 5%) CAS#: -	48 Hours	Daphina magna	EC50	10.8 mg/L	Internal Data

Algae If available, see ingredient data below

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Disodium EDTA (1 - 5%)	72 Hours	None reported	EC50	10 mg/L	Vendor SDS
CAS#: 139-33-3					

#### Other Information

# Persistence and degradability

### **Product Biodegradability Data**

No data available.

EN / UGHS Page 10 / 13

### **Ingredient Biodegradability Data**

Chemical name	Test method	Biodegradation	Exposure	Results
			time	
DPD Salt (1 - 5%) CAS#: -	None reported	None reported	None reported	Not determined

### **Bioaccumulation**

### **Product Bioaccumulation Data**

No data available.

Partition Coefficient (n-octanol/water)

log Kow ~ 0

### **Ingredient Bioaccumulation Data**

Chemical name	Test method	Exposure time	Species	Bioconcentrat ion factor (BCF)	Results
DPD Salt (1 - 5%) CAS#: -	None reported	None reported	None reported	None reported	Not determined

### **Mobility**

**Soil Organic Carbon-Water Partition Coefficient** 

log Koc ~ 0

Water solubility

Water solubility classification	<u>Water solubility</u>	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

### Other adverse effects

No information available.

# **Section 13: DISPOSAL CONSIDERATIONS**

Disposal 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.

# **Section 14: TRANSPORT INFORMATION**

ADG Not regulated

IATA Not regulated

IMDG Not regulated

### **Additional information**

EN / UGHS Page 11 / 13

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods.

If the item is not in a reagent set or kit, the classification given above applies. If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

### **Section 15: REGULATORY INFORMATION**

#### Regulatory information

### **National regulations**

### Australia

Model Work Health and Safety Regulations

[NOHSC:2011(2003] National Code of Practice for the Preparation of Material Safety Data Sheets

Labelling of Workplace Hazardous Chemicals Code of Practice

See section 8 for national exposure control parameters

### **National pollutant inventory**

Not subject to reporting

#### Banned and/or restricted

No Products Listed.

### **International Inventories**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIoC	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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

# **International Regulations**

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

# Section 16: Any other relevant information

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

EN / UGHS Page 12/13

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 Ceiling Ceiling Limit Value Maximum Allowable Concentration

Χ 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 Hazard Designation Respiratory sensitization RSP+ Carcinogen R Reproductive toxicant С

mutagen M

Hach Product Compliance Department Prepared By

**Issue Date** 09-Aug-2016

**Revision Date** 12-Feb-2018

**Revision Note** 

None

**Reference Sources for Section 11** 

See Section 11: TOXICOLOGICAL INFORMATION

### **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**