

# SAFETY DATA SHEET

# Be Right<sup>™</sup>

Issue Date 04-J	un-2020 <b>R</b>	evision Date	26-Jan-2024	Version	5.3	Page	1 / 12
			1. IDENTIFICATION				
<u>Product identifier</u> Product Name		DPD Comp	ound for Free and Total Chl	lorine Analyzer	S		
<u>Other means of id</u> Product Code(s)	entification	2297255					
Safety data sheet	number	M00249					
<u>Recommended us</u> Recommended Us Uses advised agai Restrictions on us	ie inst	Laboratory Consumer	reagent.				
Details of the sup	olier of the safe	ety data sheet					
Manufacturer Add Hach Company, P.		eland, CO 8053	9, 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)

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2
Chronic aquatic toxicity	Category 3

# Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Signal word Warning



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### Hazard statements

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

### **Precautionary statements**

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 asy to do. Continue rinsing

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

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P330 - Rinse mouth

### Other Hazards Known

Harmful to aquatic life

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Chemical Name Chemical Family Chemical nature

Confidential Confidential. Confidential.

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Salt of N,N-Diethyl-p-Phenylenediamine	-	100%	

# **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.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.	
Skin contact	Wash skin with soap and water.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.	
Self-protection of the first aider	Avoid contact with skin, eyes or clothing.	
Most important symptoms and effe	cts, both acute and delayed	
Symptoms	Burning sensation.	
Indication of any immediate medica	al attention and special treatment needed	

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Note to physicians

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the 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 dioxide (CO2). Carbon monoxide.
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 ec	uipment and emergency procedures
Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Other Information	Refer to protective measures listed in Sections 7 and 8.
Environmental precautions	
Environmental precautions	See Section 12 for additional ecological information.
Methods and material for containm	ent 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

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.			
Conditions for safe storage, including any incompatibilities				
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.			

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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
<u>Appropriate engineering controls</u> Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures suc	h 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. Barrier creams may help to protect the exposed areas of skin. 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. Avoid contact with eyes, skin and clothing.
General Hygiene Considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.
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.

		MICAL PROPE	

# Information on basic physical and chemical properties

Physical state	5	Solid			
Appearance	powder	Cold	-	white	
Odor	Odorless	Udo	r threshold	Not applicable	
<u>Property</u>		Values		Remarks • Method	
Molecular weigh	t	164.24 g/mole			
рН		2.01		5% Solution	
Melting point / fr	eezing point	180 °C / 356 °F			
Initial boiling po	int and boiling range	No data available			
Evaporation rate	•	Not applicable			
Vapor pressure		Not applicable			
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Relative vapor density	No data available
Specific gravity - VALUE 1	1.226
Partition coefficient	No data available
Soil Organic Carbon-Water Partition Coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Dynamic viscosity	Not applicable
Kinematic viscosity	Not applicable

# Solubility(ies)

### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Completely soluble	622000 mg/L	20 °C / 68 °F

### Solubility in other solvents

Chemical Name Solubility classification		<u>Solubility</u>	Solubility Temperature
None reported	No information available	No data available	No information available

### **Other information**

### **Metal Corrosivity**

Steel Corrosion Rate	Not applicable
Aluminum Corrosion Rate	Not applicable

### Volatile Organic Compounds (VOC) Content

This Product is by Weight 100% an Individual Pure Chemical Substance

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Salt of	-	Not applicable	-
N,N-Diethyl-p-Phenylenediamine			

### **Explosive properties**

Upper explosion limit Lower explosion limit	No data available No data available
Flammable properties	
Flash point	Not applicable
Flammability Limit in Air Upper flammability limit: Lower flammability limit:	No data available No data available
Oxidizing properties	No data available.

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### **Bulk density**

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No data available

### 10. STABILITY AND REACTIVITY

Reactivity Not applicable.

<u>Chemical stability</u> 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

Hazardous polymerization does not occur.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

### Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Nitrogen oxides (NOx).

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

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Inhalation	May cause irritation of respiratory tract.
Eye contact	Causes serious eye irritation. May cause redness, itching, and pain.
Skin contact	May cause irritation. Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed.
Symptoms	May cause redness and tearing of the eyes.

### Acute toxicity

Based on available data, the classification criteria are not met

### Mixture

If available, see ingredient data below.

### Ingredient Acute Toxicity Data

Test data reported below.

### Oral Exposure Route

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Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Salt of N,N-Diethyl-p-Phenyl enediamine (100%) CAS#: -	Rat LD₅o	695 mg/kg	None reported	None reported	Outside testing

### **Unknown Acute Toxicity**

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

### Acute Toxicity Estimations (ATE)

Not applicable The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	No information available
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

May cause skin irritation.

### Mixture

If available, see ingredient data below.

### Ingredient Skin Corrosion/Irritation Data

No data available.

### Serious eye damage/irritation

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

### Mixture

If available, see ingredient data below.

### Ingredient Eye Damage/Eye Irritation Data

No data available.

### Respiratory or skin sensitization

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

### Mixture

If available, see ingredient data below.

### **Ingredient Sensitization Data**

No data available.

### STOT - single exposure

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

### Mixture

If available, see ingredient data below.

### Ingredient Specific Target Organ Toxicity Single Exposure Data No data available.

### STOT - repeated exposure

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

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### Mixture

If available, see ingredient data below.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data No data available.

### Carcinogenicity

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

### Mixture

If available, see ingredient data below.

### Ingredient Carcinogenicity Data

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Salt of	-	-	-	-	-
N,N-Diethyl-p-Phenylenedi					
amine					

### 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	Does not apply

### Germ cell mutagenicity

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

### Mixture invitro Data

If available, see ingredient data below.

# Substance invitro Data

No data available.

# Mixture invivo Data

If available, see ingredient data below.

# Substance invivo Data

No data available.

### **Reproductive toxicity**

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

### Mixture

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

Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity

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

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environment.

### Mixture

**Aquatic Acute Toxicity** If available, see ingredient data below.

### **Aquatic Chronic Toxicity**

If available, see ingredient data below.

### Substance

### **Aquatic Acute Toxicity**

Test data reported below.

### Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Salt of N,N-Diethyl-p-Phenyl enediamine (100%) CAS#: -	48 Hours	Daphina magna	EC50	10.8 mg/L	Internal Data

### **Aquatic Chronic Toxicity**

No data available.

### Persistence and degradability

### Mixture No data available.

**Bioaccumulation** MATERIAL DOES NOT BIOACCUMULATE Mixture No data available.

### Partition coefficient

### Mobility

### **Soil Organic Carbon-Water Partition Coefficient**

### 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

No data available

No data available

	14. TRANSPORT INFORMATION
DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated

### Additional information

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.

<ul> <li>A second state of the second stat</li></ul>	15. REGULATO	DRY INFORMATION	
National Inventories			
AJAT	Complies		

ISCA	
DSL/NDSL	

complies 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	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	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

IMERC: Not applicable

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

This product does not contain any substances regulated by state right-to-know regulations.

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

# 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
				-

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

ACGIH	ACGIH (American Conference of Governmental Industrial Hygienists)
ATSDR	ATSDR (Agency for Toxic Substances and Disease Registry)
CCRIS	CCRIS (Chemical Carcinogenesis Research Information System)
CDC	CDC (Center for Disease Control)
CEPA	CEPA (Canadian Environmental Protection Agency)
CICAD	CICAD (Concise International Chemical Assessment Documents)
ECHA	ECHA (The European Chemicals Agency)
EEA	EEA (European Environment Agency)
EPA	EPA (Environmental Protection Agency)
ERMA	ERMA (New Zealands Environmental Risk Management Authority)
ECOSARS	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite <sup>TM</sup>
FDA	FDA (Food & Drug Administration)
GESTIS	GESTIS (Information System on Hazardous Substances of the German Social Accident
	Insurance)
HSDB	HSDB (Hazardous Substances Data Bank)
INERIS	INERIS (The National Industrial Environment and Risks Institute)

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IPCS INCHEM IUCLID NITE NIH NIOSH LOLI NDF NICNAS NIOSH IDLH OSHA PEEN RTECS SIDS SYKE USDA USDC WHO	Immediately Dangerous to L		al Uniform Chemica of Technology and of Health) e for Occupational S iternational Chemic rial Chemicals Notifito to Life or Health fety and Health Adr cological Network) ic Effects of Chemic ation Dataset) for H t Institute (SYKE) partment of Agricul partment of Comm	Il Information Database) Evaluation (NITE) Safety and Health) Fal Regulatory Database) fication and Assessment Scheme (NICNAS) ministration of the US Department of Labor) cal Substances) igh Volume Chemicals
Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION				
TWA	TWA (time-weight	ed average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowat	le Concentration	Ceiling	Ceiling Limit Value
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* RSP+ C M	Skin designation Respiratory sensit Carcinogen mutagen	ization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By		Hach Product Complianc	e Department	
Issue Date		04-Jun-2020		
<b>Revision Date</b>		26-Jan-2024		
Revision Note		SDS sections updated 2		

### 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.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet