

SAFETY DATA SHEET

Issue Date 13-Jun-2017	Revision Date 17-Apr-2018	Version 5.799999	Page 1 / 12
	1. IDENTIFICA	ATION	
Product identifier Product Name	Deionized (Demineralized) Wat	er	
Other means of identification Product Code(s)	27256		
Safety data sheet number	M00350		
<u>Recommended use of the che</u> Recommended Use Uses advised against Restrictions on use <u>Details of the supplier of the s</u>	Laboratory reagent. Analytical r None. None.	reagent. Standard solution. Solvent.	

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 +1(515)232-2533 - 8am - 4pm CST

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

The product contains no substances which at their given concentration, are considered to be hazardous to health

Other Hazards Known

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

EN / AGHS

Product Name Deionized (Demineralized) Water Revision Date 17-Apr-2018 Page 2 / 12

Substance

The product contains no substances which at their given concentration, are considered to be hazardous to health

Chemical Name	
Chemical Family	
Formula	
CAS No	
Chemical nature	

Water Inorganic Oxides. H₂O 7732-18-5 aqueous solution.

4. FIRST AID MEASURES

Description of first aid measures

General advice	No hazards which require special first aid measures. Use first aid treatment according to the nature of the injury.	
Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and effects, both acute and delayed		
Symptoms	See Section 11 for additional Toxicological Information.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
	5. FIRE-FIGHTING MEASURES	
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the	

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	This material will not burn.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

 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	Ensure adequate ventilation.		
Environmental precautions			
Environmental precautions	See Section 12 for additional ecological information.		
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

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.	
Conditions for safe storage, includi	ng 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

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.		
Individual protection measures, suc Respiratory protection	ch as personal protective equipment 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.		
Eye/face protection	Wear safety glasses with side shields (or goggles).		
Skin and body protection	No special protective equipment required.		
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.		
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.		

Product Name Deionized (Demineralized) Water Revision Date 17-Apr-2018 Page 4 / 12

Thermal hazards

None under normal processing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance	clear	Liquid		Color	colorless		
Odor	aqueous solution Odorless			Odor threshold	Not applica	ble	
Property_			Values			Remarks • Method	
Molecular weight	:		18.02 g/mole				
рН			7				
Melting point/free	ezing point		0 °C / 32 °F	0 °C / 32 °F			
Boiling point / bo	iling range		100 °C / 212 °F				
Evaporation rate		1 (water = 1)					
Vapor pressure		23.777 mm Hg / 3.17 kPa at 25 °C / 77 °F					
Vapor density (ai	r = 1)		0.62			Air = 1	
Specific gravity (water = 1 / air = 1)		1				
Partition Coeffici	ent (n-octanol/wate	er)	Not applicable				
Soil Organic Carl Coefficient	oon-Water Partition	า	Not applicable				
Autoignition temperature		No data available					
Decomposition te	emperature		Not applicable				
Dynamic viscosit	у		1 cP (mPa s) a	at 20 °C / 68 °F			
Kinematic viscos	ity		1 cSt (mm ² /s)	at 20 °C / 68 °F			
Solubility/ios)							

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	Solubility classification	<u>Solubility</u>	Solubility Temperature
Acids	Soluble	> 1000 mg/L	25 °C / 77 °F
Most Polar Organic Solvents	Soluble	> 1000 mg/L	25 °C / 77 °F

Other Information

Metal Corrosivity

Steel Corrosion Rate	Not applicable
Aluminum Corrosion Rate	Not applicable

Product Name Deionized (Demineralized) Water Revision Date 17-Apr-2018 Page 5/12

Volatile Organic Compounds (VOC) Content This Product is by Weight 100% an Individual Pure Chemical Substance

Explosive properties		
Upper explosion limit Lower explosion limit		Not applicable Not applicable
Flammable properties		
Flash point		No data available
Flammability Limit in Air Upper flammability limit: Lower flammability limit:		No data available No data available
Oxidizing properties		No data available.
Bulk density		Not applicable
Particle Size	No information available	
Particle Size Distribution	No information available	

10. STABILITY AND REACTIVITY

Reactivity Not applicable.	
<u>Chemical stability</u> Stability	Stable under normal conditions.
Explosion data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t None None.
Possibility of Hazardous Reactions Possibility of Hazardous Reactions	
<u>Hazardous polymerization</u> Hazardous polymerization does not oc	ccur.
<u>Conditions to avoid</u> Conditions to avoid	None known based on information supplied.
Incompatible materials Incompatible materials	Strong oxidizing agents, strong acids, and strong bases.
Hazardous Decomposition Products	5
	11. TOXICOLOGICAL INFORMATION
Information on Likely Routes of Exposure Product Information	
Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.

EN / AGHS

Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Symptoms	No information available.
Aggravated Medical Conditions Toxicologically synergistic products	None known. None known.
Toxicokinetics, metabolism and distribution	This Product is by Weight 100% an Individual Pure Chemical Substance.

Product Acute Toxicity Data	This Product is by Weight 100% an Individual Pure Chemical	
	Substance	
Oral Exposure Route	If available, see ingredient data below	
Dermal Exposure Route	If available, see ingredient data below	
Inhalation (Dust/Mist) Exposure Route	If available, see ingredient data below	
Inhalation (Vapor) Exposure Route	If available, see ingredient data below	
Inhalation (Gas) Exposure Route	If available, see ingredient data below	

Unknown Acute Toxicity

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

Acute Toxicity Estimations (ATE)

Not applicable

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

Ingredient Acute Toxicity Data	
Oral Exposure Route	
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

Product Specific Target Organ Toxicity Single Exposure Data

Froduct Specific Target Organ Toxicity Single Exposur	
Oral Exposure Route	If available, see ingredient data below
Dermal Exposure Route	If available, see ingredient data below
Inhalation (Dust/Mist) Exposure Route	If available, see ingredient data below
Inhalation (Vapor) Exposure Route	If available, see ingredient data below
Inhalation (Gas) Exposure Route	If available, see ingredient data below

Ingredient Specific Target Organ Toxicity Single Exposure Data		
Oral Exposure Route	If available, see data below	
Dermal Exposure Route	If available, see data below	
Inhalation (Dust/Mist) Exposure Route	If available, see data below	
Inhalation (Vapor) Exposure Route	If available, see data below	
Inhalation (Gas) Exposure Route	If available, see data below	
Aspiration toxicity		

Aspiration toxicity If available, see data below Kinematic viscosity

1 cSt (mm²/s)

Product Skin Corrosion/Irritation Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Product Name Deionized (Demineralized) Water Revision Date 17-Apr-2018 Page 7 / 12

Ingredient Skin Corrosion/Irritation Data If available, see data below

Product Serious Eye Damage/Eye Irritation Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Ingredient Eye Damage/Eye Irritation Data

No data available

Sensitization Information

Product Sensitization Data	
Skin Sensitization Exposure Route	This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.
Respiratory Sensitization Exposure Route	This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.
Ingredient Sensitization Data	
Skin Sensitization Exposure Route	If available, see data below.
Respiratory Sensitization Exposure Route	If available, see data below.
Chronic Toxicity Information	
Product Specific Target Organ Toxicity Repeat Dose Data	
Oral Exposure Route	If available, see ingredient data below.
rmal Exposure Route If available, see ingredient data below.	
Inhalation (Dust/Mist) Exposure Route If available, see ingredient data below.	
Inhalation (Vapor) Exposure Route	If available, see ingredient data below.
Inhalation (Gas) Exposure Route	If available, see ingredient data below.
Ingredient Specific Target Organ Toxicity Repeat Exposure	Data_
Oral Exposure Route	If available, see data below
Dermal Exposure Route	If available, see data below
Inhalation (Dust/Mist) Exposure Route	If available, see data below
Inhalation (Vapor) Exposure Route	If available, see data below
Inhalation (Gas) Exposure Route	If available, see data below
Product Carcinogenicity Data	
Oral Exposure Route	If available, see ingredient data below
Dermal Exposure Route	If available, see ingredient data below
Inhalation (Dust/Mist) Exposure Route	If available, see ingredient data below
Inhalation (Vapor) Exposure Route	If available, see ingredient data below
Inhalation (Gas) Exposure Route	If available, see ingredient data below

Ingredient Carcinogenicity Data

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

Product Germ Cell Mutagenicity invitro Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Ingredient Germ Cell Mutagenicity *invitro* Data No data available

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
Ingredient Germ Cell Mutagenicity invivo Data

Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Product Reproductive Toxicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Reproductive Toxicity Data Oral Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see ingredient data below If available, see ingredient data below

If available, see data below If available, see data below If available, see data below If available, see data below If available, see data below

If available, see ingredient data below If available, see ingredient data below If available, see ingredient data below If available, see ingredient data below If available, see ingredient data below

If available, see data below If available, see data below If available, see data below If available, see data below

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not considered to be harmful to aquatic life

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

If available, see ingredient data below If available, see ingredient data below If available, see ingredient data below

No data available No data available No data available

Aquatic toxicity

Fish Crustacea Algae

Ingredient Ecological Data

Product Ecological Data

Aquatic toxicity

Fish Crustacea Algae

Other Information

Persistence and degradability

Product Biodegradability Data

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

Ingredient Biodegradability Data

EN / AGHS

Bioaccumulation

Product Bioaccumulation Data

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

Partition Coefficient (n-octanol/water) Not applicable

Ingredient Bioaccumulation Data

Mobility

Soil Organic Carbon-Water Partition Coefficient

Water solubility

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

Not applicable

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				
U.S. 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.

15. REGULATORY INFORMATION

EN / AGHS

Product Name Deionized (Demineralized) Water Revision Date 17-Apr-2018 Page 10 / 12

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	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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

U.S. EPA Label Information

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

Special Comments

Additional information

Global Automotive Declarable Substance List (GADSL) Not applicable

NFPA and HMIS Classifications

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical
				Properties OX
HMIS	Health hazards - 0	Flammability - 0	Physical Hazards - 0	Personal protection - X
				- See section 8 for more
				information

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

NIOSH IDLH ACGIH NDF		Immediately Dangerous to Life or Health ACGIH (American Conference of Governmer no data		ental Industrial Hygienists)			
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			
х	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 sensitization Carcinogen mutagen		SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant			
Prepared By		Hach Product Compliance Department					
Issue Date		13-Jun-2017					
Revision Date		17-Apr-2018					
Revision Note		None					
<u>Disclaimer</u>							

EN / AGHS

Product Name Deionized (Demineralized) Water Revision Date 17-Apr-2018 Page 12 / 12

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.

HACH COMPANY©2018

End of Safety Data Sheet