

# SAFETY DATA SHEET

United States

Section 1. Identification Product name

## HyPure Molecular Biology Grade Water, Nuclease-Free (No Detectable Activity), Deionized, Distilled

Catalogue Number

**Chemical name** 

entification AQUA; water, distilled, conductivity or of similar purity Liquid.

9 0 S H 3 0 5 3 8

Other means of identification Product type

Relevant identified uses of the substance or mixture and uses advised against

SH30538

For Further Manufacturing or Research Use. Not for Diagnostic or Therapeutic Use. Not available.

Supplier / Manufacturer

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Cytiva USA 100 Results Way Marlborough, MA 01752 1-800-526-3593

In case of emergency

INFOTRAC - 24 Hour number: 1-800-535-5053 Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect)

Section 2. Hazards identification	on
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OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	Not classified.
<u>GHS label elements</u> Signal word	No signal word.



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Hazard statements	No known significant effects or critical hazards.
Precautionary statements	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Hazards not otherwise classified	None known.

Substance/mixture Chemical name Other means of identification	Substance water AQUA; water, distilled, conductivity or of similar p	urity	
CAS number/other identifiers CAS number	7732-18-5		
Ingredient name water		<b>%</b> 100	CAS number 7732-18-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

#### Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check
Inhalation	for and remove any contact lenses. Get medical attention if irritation occurs. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical
Skin contact	attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Most important symptoms/eff	ects, acute and delayed
Potential acute health effect	<u>is</u>
Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/sympt	oms
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.
Indication of immediate medio	cal attention and special treatment needed, if necessary
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.
See toxicological information	(Section 11)
Section 5 Fire-fighting	n mogeliroe

#### Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.



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Distilled	
Hazardous thermal decomposition products	No specific data.
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for contain	inment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water- soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 2 to 30°C (35.6 to 86°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

Control parameters	
Occupational exposure limits water	None.
Biological exposure indices	
No exposure indices known.	
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.



Distilica	
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Color	Clear.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	0°C (32°F)
Boiling point, initial boiling point, and boiling range	100°C (212°F)
Flash point	Not available.
Burning time	Not applicable.
Burning rate	Not applicable.
Evaporation rate	Not available.
Flammability	Not available.
Lower and upper explosive (flammable) limits	Not available.
Vapor pressure	3.2 kPa (23.8 mm Hg)
Relative vapor density	Not available.
Relative density	Not available.
Density	1 g/cm³
Solubility in water	Not available.
Partition coefficient: n-octanol/ water	-1.38
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
SADT	Not available.
Viscosity	Not available.
Flow time (ISO 2431)	Not available.
Molecular weight	18.02 g/mole
Particle characteristics	
Median particle size	Not applicable.

## Section 10. Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reactions	No specific test data related to reactivity available for this product or its ingredients. The product is stable. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.



## Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity

Not available.

#### Irritation/Corrosion Not available.

Sensitization

Not available.

### **Mutagenicity**

Not available.

#### Carcinogenicity Not available.

Reproductive toxicity

Not available.

## **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

## Aspiration hazard

Not available.

Information on the likely routes Routes of entry anticipated: Oral, Dermal, Eyes. of exposure

#### Potential acute health effects

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Eye contact	No known significant effects or critical hazards.			
Inhalation	No known significant effects or critical hazards.			
Skin contact	No known significant effects or critical hazards.			
Ingestion	No known significant effects or critical hazards.			
Symptoms related to the physical, chemical and toxicological characteristics				
Eye contact	No specific data.			
Inhalation	No specific data.			
Skin contact	No specific data.			
Ingestion	No specific data.			
Delayed and immediate effects and also chronic effects from short and long term exposure				
Short term exposure				
Potential immediate effects	Not available.			
Potential delayed effects	Not available.			
Long term exposure				
Potential immediate effects	Not available.			
Potential delayed effects	Not available.			
Potential chronic health effects				
Not available.				
General	No known significant effects or critical hazards.			
Carcinogenicity	No known significant effects or critical hazards.			
Mutagenicity	No known significant effects or critical hazards.			
Reproductive toxicity	No known significant effects or critical hazards.			
Numerical measures of toxicity				
Acute toxicity estimates				
<b>N1/A</b>				

N/A



Proper	shipping name	Not available.		
Transport in bulk according to IMO instruments	Not available.			
Special precautions for user	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.			
Additional information	-	-	-	
Environmental hazards	No.	No.	No.	
Packing group	-	-	-	
Transport hazard class(es)	Not available.	Not available.	Not available.	
UN proper shipping name	Not available.	Not available.	Not available.	
UN number	Not available.	Not available.	Not available.	
	ADR/RID	IMDG	ΙΑΤΑ	
Additional information	-	-	-	
Environmental hazards	No.	No.	No.	
Packing group	-	-	-	
Transport hazard class(es)	Not available.	Not available.	Not available.	
UN proper shipping name	Not available.	Not available.	Not available.	
UN number	Not available.	Not available.	Not available.	
	DOT Classification	TDG Classification	Mexico Classification	
Section 14. Transport in	formation			
	environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.			
Disposal methods	product, solutions and any by-pr environmental protection and wa		ith the requirements of gional local authority	
Section 13. Disposal co				
Other adverse effects	No known significant effects or o	critical hazards.		
Soil/water partition coefficient (K oc)	Not available.			
Mobility in soil			2011	
Not available. Bioaccumulative potential Product/ingredient name water	<b>LogP₀</b> ₩ -1.38	BCF	<b>Potential</b> Low	
Persistence and degradability				
<u>Toxicity</u> Not available.				
Section 12. Ecological ir	normation			
Section 12 Ecological in	oformation			



#### Section 15. Regulatory information

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: This material is listed or exempted.

Clean Air Act Section 112(b) Ha (HAPs)		Not listed		
Clean Air Act Section 602 Class I Substances		Not listed		
Clean Air Act Section 602 Class II Substances DEA List I Chemicals (Precursor Chemicals) DEA List II Chemicals (Essential Chemicals)		Not listed		
		Not listed Not listed		
SARA 302/304	onennearsy	Nothisted		
<u>Composition/information on in</u>	aredients			
No products were found.	greatente			
SARA 304 RQ	Not applicable.			
SARA 311/312	Not applicable.			
Classification	Not applicable.			
Composition/information on in No products were found.	gredients			
State regulations				
Massachusetts	This material is not listed.			
New York	This material is not listed.			
New Jersey	This material is not listed.			
Pennsylvania	This material is not listed.			
<u>California Prop. 65</u>				
This product does not require	re a Safe Harbor warning und	ler California Prop. 65.		
International regulations				
Chemical Weapon Convention	List Schedules I. II & III Che	emicals		
Not listed.		<u>, , , , , , , , , , , , , , , , , , , </u>		
Montreal Protocol				
Not listed.				
Stockholm Convention on Pers	sistent Organic Pollutants			
Not listed.				
Rotterdam Convention on Prio Not listed.	r Informed Consent (PIC)			
UNECE Aarhus Protocol on PC	)Ps and Heavy Metals			
Not listed.	<u> </u>			
Inventory list				
United States	Not determined.			
Canada inventory	This material is listed or ex	empted.		
Section 16. Other inform	nation			
National Fire Protection Associa	ition (U.S.A.)			
		emekilit.		
		nmability		
	Health	nstability/Reactivity		
	Spe	cial hazards		
Procedure used to derive the cla	assification			
Classi	ification		Justification	
Not classified.				
History				
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HyPure Molecular Biology Grade Water, Nuclease-Free (No Detectable Activity), Deionized,

Distilled	de Water, Nuclease-i ree (No Delectable Activity), i
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Version	1.02
	sds_author@cytiva.com
Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Class

 GHS = Globally Harmonized System of Classification and Labelling of Chemicals

 IATA = International Air Transport Association

 IBC = Intermediate Bulk Container

 IMDG = International Maritime Dangerous Goods

 LogPow = logarithm of the octanol/water partition coefficient

 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified

 by the Protocol of 1978. ("Marpol" = marine pollution)

 N/A = Not available

 UN = United Nations

 Not available.

 Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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