SAFETY DATA SHEET

United States

Section 1. Identification Product name

HyPure Cell Culture Grade Water, Endotoxin-Free

Catalogue Number	SH30529	9 0 s H 3 0 5 2 9
Chemical name Other means of identification Product type	water AQUA; water, distilled, conductivity or of similar purity Liquid.	
Relevant identified uses of the sul	ostance or mixture and uses advi	<u>sed against</u>
Industrial applications: Further m	anufacturina. not for in-vitro or dia	ianostic use

Industrial applications: Further manufacturing, not for in-vitro or diagnostic use

Supplier	HyClone Laboratories, Inc 925 West 1800 South Logan, Utah 84321 Phone: (435) 792-8000 eMail: msdslifesciences@ge.com	GE Healthcare Bio-Sciences Austria GmbH. Kremplstr. 5 4060 Pasching AUSTRIA Phone: +43 7229 64865 Fax: +43 7229 64866 eMail: msdslifesciences@ge.com
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		
OSHA/HCS status Classification of the substance or	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product. Not classified.	
mixture		
<u>GHS label elements</u> Signal word	No signal word.	

No known significant effects or critical hazards. Hazard statements

Precautionary statements	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Hazards not otherwise classified	None known.

Section 3. Composition/information on ingredients

Substance/mixture Chemical name Other means of identification	Substance water AQUA; water, distilled, conductivity or of similar purity	/	
CAS number/other identifiers			
CAS number	7732-18-5		
Product code	SH30529		
Ingredient name		%	CAS number
water		100	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 as hazardous to health or the environment and hence require reporting in this section.



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

Section 4. First aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention
	if symptoms occur.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 effects	<u>s</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/sympto	<u>ms</u>
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.
Indication of immediate medic	al 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 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.
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 specialised 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 containment 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 st	orage
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 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.
Section 8. Exposure contro	ols/personal protection
Control parameters	
Occupational exposure limits None.	
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.
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	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Color	Clear.
Odor	Not available.
Odor threshold	Not available.
рН	5 to 7
Melting point	0°C (32°F)
Boiling point	100°C (212°F)
Flash point	Not available.
Burning time	Not applicable.
Burning rate	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.





Lower and upper explosive (flammable) limits	Not available.
(nariinable/ innes	
Vapor pressure	3.2 kPa (23.8 mm Hg) [room temperature]
Vapor density	Not available.
Relative density	Not available.
Solubility	Not available.
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.

Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	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.

<u>Mutagenicity</u>

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 of Routes of entry anticipated: Oral, Dermal. exposure

Potential acute health effects

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	
	No oposifia data

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.



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HyPure Cell Culture Grade Water, En				
Ingestion	No specific data.			
Delayed and immediate effects and	d also chronic effects from short a	id long term exposure		
Short term exposure				
Potential immediate effects Potential delayed effects	Not available. 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 cr	tical hazards.		
Carcinogenicity	5	No known significant effects or critical hazards.		
Mutagenicity	No known significant effects or critical hazards.			
Teratogenicity	No known significant effects or critical hazards.			
Developmental effects Fertility effects	No known significant effects or cr No known significant effects or cr			
Numerical measures of toxicity				
Acute toxicity estimates				
Not available.				
Section 12. Ecological info	ormation			
<u>Toxicity</u> Not available.				
Persistence and degradability				
Not available.				
<u>Bioaccumulative potential</u>	L = = D	805	Detential	
Product/ingredient name water	LogP₀w -1.38	BCF	Potential low	
Mobility in soil				
<u>Mobility in soil</u> Soil/water partition coefficient (K _{oc})	Not available.			
Soil/water partition coefficient (Koc)	Not available. No known significant effects or cr	tical hazards.		
	No known significant effects or cr	tical hazards.		
Soil/water partition coefficient (Koc) Other adverse effects Section 13. Disposal cons	No known significant effects or cr iderations The generation of waste should b solutions and any by-products sho protection and waste disposal leg surplus and non-recyclable produ disposed of untreated to the sewe jurisdiction. Waste packaging sho recycling is not feasible. This mat	e avoided or minimized wherever pos buld at all times comply with the requ- islation and any regional local author cts via a licensed waste disposal con r unless fully compliant with the requ- uld be recycled. Incineration or land erial and its container must be dispos ne product residues. Avoid dispersal	sible. Disposal of this product, irements of environmental rity requirements. Dispose of tractor. Waste should not be irements of all authorities with fill should only be considered when ted of in a safe way. Empty	
Soil/water partition coefficient (Koc) Other adverse effects Section 13. Disposal cons Disposal methods	No known significant effects or cr iderations The generation of waste should b solutions and any by-products shi protection and waste disposal leg surplus and non-recyclable produ disposed of untreated to the sewe jurisdiction. Waste packaging sho recycling is not feasible. This mat containers or liners may retain so contact with soil, waterways, drai	e avoided or minimized wherever pos buld at all times comply with the requ- islation and any regional local author cts via a licensed waste disposal con r unless fully compliant with the requ- uld be recycled. Incineration or land erial and its container must be dispos ne product residues. Avoid dispersal	sible. Disposal of this product, irements of environmental rity requirements. Dispose of tractor. Waste should not be irements of all authorities with fill should only be considered when ted of in a safe way. Empty	
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Soil/water partition coefficient (Koc) Other adverse effects Section 13. Disposal cons Disposal methods Section 14. Transport info	No known significant effects or cr iderations The generation of waste should b solutions and any by-products sh- protection and waste disposal leg surplus and non-recyclable produ disposed of untreated to the sewe jurisdiction. Waste packaging sho recycling is not feasible. This mat containers or liners may retain so contact with soil, waterways, drai mmation DOT Classification Not available.	e avoided or minimized wherever pos buld at all times comply with the requ- islation and any regional local author cts via a licensed waste disposal con r unless fully compliant with the requ- uld be recycled. Incineration or land erial and its container must be dispos ne product residues. Avoid dispersal as and sewers. TDG Classification Not available.	sible. Disposal of this product, irements of environmental ity requirements. Dispose of tractor. Waste should not be irrements of all authorities with fill should only be considered when sed of in a safe way. Empty of spilled material and runoff and Mexico Classification Not available.	
Soil/water partition coefficient (Koc) Other adverse effects Section 13. Disposal cons Disposal methods Section 14. Transport info UN number UN proper shipping name	No known significant effects or cr iderations The generation of waste should b solutions and any by-products shi protection and waste disposal leg surplus and non-recyclable produ disposed of untreated to the sewe jurisdiction. Waste packaging shi recycling is not feasible. This mat containers or liners may retain so contact with soil, waterways, drai rmation DOT Classification Not available. Not available.	e avoided or minimized wherever pos puld at all times comply with the requ- islation and any regional local author cts via a licensed waste disposal con r unless fully compliant with the requ- uld be recycled. Incineration or land erial and its container must be dispos ne product residues. Avoid dispersal is and sewers. TDG Classification Not available. Not available.	sible. Disposal of this product, irements of environmental ity requirements. Dispose of tractor. Waste should not be irements of all authorities with fill should only be considered when sed of in a safe way. Empty of spilled material and runoff and Mexico Classification Not available. Not available.	
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Soil/water partition coefficient (Koc) Other adverse effects Section 13. Disposal cons Disposal methods Section 14. Transport info UN number UN proper shipping name Transport hazard class(es) Packing group	No known significant effects or cr iderations The generation of waste should b solutions and any by-products shi protection and waste disposal leg surplus and non-recyclable produ disposed of untreated to the sewe jurisdiction. Waste packaging shi recycling is not feasible. This mat containers or liners may retain so contact with soil, waterways, drai rmation DOT Classification Not available. Not available.	e avoided or minimized wherever pos puld at all times comply with the requ- islation and any regional local author cts via a licensed waste disposal con r unless fully compliant with the requ- uld be recycled. Incineration or land erial and its container must be dispos ne product residues. Avoid dispersal is and sewers. TDG Classification Not available. Not available.	sible. Disposal of this product, irements of environmental ity requirements. Dispose of tractor. Waste should not be irements of all authorities with fill should only be considered when sed of in a safe way. Empty of spilled material and runoff and Mexico Classification Not available. Not available.	
Soil/water partition coefficient (Koc) Other adverse effects Section 13. Disposal cons Disposal methods Section 14. Transport info UN number UN proper shipping name	No known significant effects or cr iderations The generation of waste should b solutions and any by-products shi protection and waste disposal leg surplus and non-recyclable produ disposed of untreated to the sewe jurisdiction. Waste packaging shi recycling is not feasible. This mat containers or liners may retain so contact with soil, waterways, drai rmation DOT Classification Not available. Not available.	e avoided or minimized wherever pos puld at all times comply with the requ- islation and any regional local author cts via a licensed waste disposal con r unless fully compliant with the requ- uld be recycled. Incineration or land erial and its container must be dispos ne product residues. Avoid dispersal is and sewers. TDG Classification Not available. Not available.	sible. Disposal of this product, irements of environmental ity requirements. Dispose of tractor. Waste should not be irements of all authorities with fill should only be considered when sed of in a safe way. Empty of spilled material and runoff and Mexico Classification Not available. Not available.	



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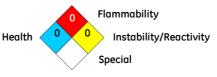
HyPure Cell Culture Grade Water, En	idotoxin-Free		SH30529
	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not available.	Not available.	Not available.
UN proper shipping name	Not available.	Not available.	Not available.
Transport hazard class(es)	Not available.	Not available.	Not available.
Packing group Environmental hazards	-	-	-
Additional information	No.	No.	No.
Special precautions for user		s: always transport in closed containe	
		the product know what to do in the e	vent of an accident or spillage.
Transport in bulk according to	Not available.		
Annex II of MARPOL 73/78 and the IBC Code			
	hipping name	Not available.	
Ship typ		Not available.	
		Not available.	
Castiers 15 Desculators inf			
Section 15. Regulatory inf	ormation		
U.S. Federal regulations	TSCA 8(a) CDR Exempt/Partial ex	cemption : This material is listed or exe	empted.
	United States inventory (TSCA 8	b) : This material is listed or exempted.	
Clean Air Act Section 112(b) Hazar		Not listed	
Clean Air Act Section 602 Class I Su		Not listed	
Clean Air Act Section 602 Class II S DEA List I Chemicals (Precursor Ch		Not listed Not listed	
DEA List I Chemicals (Essential Ch		Not listed	
SARA 302/304			
<u>Composition/information on ingr</u>	radianta		
	edients		
No products were found.	A1		
SARA 304 RQ	Not applicable.		
SARA 311/312			
Classification	Not applicable.		
Composition/information on ingr	edients		
No products were found.			
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.		
International regulations			
Canada inventory	This material is listed or exempted		
International lists	Australia inventory (AICS): This m		
	China inventory (IECSC): This ma Japan inventory: This material is		
	Korea inventory: This material is	•	
		r): This material is listed or exempted.	
	-	icals (NZIOC): This material is listed or	exempted.
	Philippines inventory (PICCS): Th Taiwan inventory (CSNN): Not de		
Chemical Weapons Convention L		Not listed	
Chemical Weapons Convention L		Not listed	
Chemical Weapons Convention L	ist Schedule III Chemicals	Not listed	





Section 16. Other information

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>History</u>

Date of printing	10/22/2015.
Date of issue/Date of revision	10/21/2015.
Date of previous issue	3/4/2015.
Version	0.01
Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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