

PRODUCT CERTIFICATION

CATALOG NUMBER	112-01A/CTOC	LOT NUMBER	TW5156030
PROCESS DATE	6/19/2025	EXP DATE	6/19/2026
METHOD	7.5.1.39		
DESCRIPTION	1 Liter Amber Jug w/Low TOC Water		

This is to certify that the item(s) as stated above have been processed utilizing Thermo Fisher Scientifics' Method 7.5.1.39.

ANALYSIS

ANALYTE	Quantity Found
Total Organic Carbon	<50µg/L
Resistivity Reading	18.10 megOhm/cm
Conductivity Reading	0.05 microSiemen/cm

Thermo Fisher Scientific certifies that the item(s) in above referenced shipment were processed, tested, and meets Thermo Fisher Scientifics' acceptance criteria for Low Particle testing.

Approved By:



 Levi Nott 6/19/2025
 Quality Assurance

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code	WATER
Product name	Water
Molecular Formula	H ₂ O
Synonyms	Water
Product Catalog Numbers	PP140-40CEPDITB; 111-04A/C-TOC; 112-01A/CTOC, 112-01A/C6-TOC

Company/undertaking identification

EP Scientific Products/ThermoFisher
520 North Main Street
Miami, OK 74354
Business Phone: 1-(828)-658-2711

EMAIL ADDRESS FOR PRODUCT INFORMATION:
cservice@epscientific.com

24 hour Emergency Response for Hazardous Materials CHEMTREC: 1-800-424-9300 (U.S./Canada/Puerto Rico)
[or Dangerous Goods] Incident. Spill, Leak, Fire, [24-hours]
Exposure, or Accident. Call CHEMTREC CHEMTREC: +1-703-527-3887 (Outside North America)
[24-hours]

Country Specific Emergency Number (if available):

Product Use: Various

SECTION 2: Hazards identification

GHS Classification

Signal Word
Not Hazardous

Hazard pictograms

None

Health hazards

Revision date 03-Jan-2025
Product code WATER

Page 1 / 11
Product name Water

Not Hazardous

Physical hazards

Not Hazardous

Environmental hazards

Not Hazardous

Hazard Statements

None

Precautionary Statements

Prevention

Not Applicable

Response

Not Applicable

Storage

Not Applicable

Disposal

Not Applicable

Other hazards

Not Applicable

HMIS

Health	0
Flammability	0
Reactivity	0

EMERGENCY OVERVIEW: Product Description: This product is a clear, colorless, odorless liquid. Health Hazards: This product is purified water and presents no health hazards when handled alone. Although water has an LD50 (Oral-Rat) value (see Section 11), this product poses no health hazard under normal use and handling. In use with other chemical materials, the hazards of those materials may be relevant. Flammability Hazards: This product is not flammable or combustible. If involved in a fire, no hazardous by-products are generated. Reactivity Hazards: This product is not reactive. Environmental Hazards: This product will not cause harm in the environment by itself. Emergency Considerations: Emergency responders should wear appropriate protection for situation to which they respond.

SECTION 3: Composition/information on ingredients

Chemical Name	CAS No.	Common name	EC No.	Weight-%
Water	7732-18-5	Not applicable	231-791-2	100

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Description of first aid measures

Take a copy of label and SDS to physician or health professional with the contaminated individual.

Skin contact	Not likely to cause adverse effect in contact with skin.
Eye contact	Not likely to cause adverse effect in contact with the eyes.
Ingestion	Not likely to cause adverse effect if ingested.
Inhalation	Not likely to cause adverse effect by inhalation.
Notes to Physician	Treat symptomatically.

Most important symptoms and effects, both acute and delayed

None

Indication of any immediate medical attention and special treatment needed

Not applicable.

OF FIRST AID RESPONDERS: See Sections 6 (Accidental Release Measures) and 8 (Exposure Controls-Personal Protection).

Medical conditions aggravated by exposure

Not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media	Use fire extinguishing materials appropriate for surrounding materials.
Unsuitable extinguishing media	No information available.

Special hazards arising from the substance or mixture

None

Hazardous Combustion Products	If exposed to extremely high temperatures, water will boil and form steam. Hydrolysis: None.
--------------------------------------	--

Advice for firefighters

None. Consider actions appropriate for surrounding materials.

Explosion Sensitivity to Mechanical Impact/ Explosion Sensitivity to Static Discharge

Not sensitive

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

This product does not pose any serious hazard if released. If floors are wet, a slip hazard may exist.

EQUIPMENT: For spills only containing this product, wear lightweight nitrile or other type glove. If other materials are involved in a spill, use equipment appropriate for those materials.

Environmental precautions

This product does not pose an hazard to the environment.

Methods and material for containment and cleaning up

Absorb spilled material with polypads or other type material. Consideration must be made if spill involves other materials.

Reference to other sections

See Section 13, Disposal Considerations for more information.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with other hazardous materials. Although this product is non-hazardous, handling of all materials in the workplace should be done with care.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

Store in sealed containers. Store away from water-reactive materials.

Specific end use(s)

This product has various applications/uses. Follow all industry standards for use of this product.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT

Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely, if necessary.

SECTION 8: Exposure controls/personal protection

Control parameters

Chemical Name	ACGIH-TLVs (TWA)	ACGIH-TLVs (STEL)	OSHA-PELs (TWA)	OSHA-PELs (STEL)
Water	Not Established	Not Established	Not Established	Not Established

Chemical Name	NIOSH-RELs (TWA)	NIOSH-RELs (STEL)	NIOSH (IDLH)	Other
Water	Not Established	Not Established	Not Established	Not Established

Engineering Measures

This product should be used areas with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits provided in this section, if applicable. Use a non-sparking, grounded, explosion-proof ventilation system

separate from other exhaust ventilation systems. Exhaust directly to the outside, taking necessary precautions for environmental protection. An eyewash and safety shower should be readily accessible.

Exposure controls

Personal Protective Equipment

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132, including U.S. Federal OSHA Respiratory Protection (29 CFR 1910.134), OSHA Eye Protection 29 CFR 1910.133, OSHA Hard Protection 29 CFR 1910.138, OSHA Foot Protection 29 CFR 1910.136 and OSHA Body Protection 29 CFR 1910.132), equivalent standards of Canada (including CSA Respiratory Standard Z94.4-02, Z94.3-M1982, Industrial Eye and Face Protectors and CSA Standard Z195-02, Protective Footwear), or standards of EU member states (including EN 529:2005 for respiratory PPE, CEN/TR 15419:2006 for hand protection, and CR 13464:1999 for face/eye protection). Please reference applicable regulations and standards for relevant details.

Respiratory protection

Maintain airborne contaminant concentrations below limits listed above, if applicable. In instances where inhalable aerosols may be generated, and respiratory protection is necessary, use only respiratory protection authorized under appropriate regulations. In the U.S., oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998).

Hand protection

Use butyl rubber, Teflon, Viton, Saranex, or Responder gloves for routine industrial use. Use triple gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this SDS. If necessary, refer to applicable regulations.

Eye protection

Splash goggles or safety glasses. Splash goggles and faceshield should be considered when handling solutions made from this product. If necessary, refer to appropriate country regulations and standards for further information.

Skin and Body Protection

Use body protection appropriate for task. Full-body chemical protective clothing is recommended for emergency response procedures. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection. Refer to appropriate country regulations and standards for further information.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

This product does not pose an hazard to the environment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	liquid	
Color	clear, Colorless	
Odor	odorless	
Odor Threshold	Not Applicable	
Molecular Weight	18.0	
pH	7.0	
Freezing point	0°C (32°F)	
Melting point / melting range	°C 0	°F 32
Boiling point / boiling range	°C 100	°F 212
Flash point	°C Mixture has not been tested	°F Mixture has not been tested
Autoignition Temperature	°C Mixture has not been tested	°F Mixture has not been tested
Decomposition temperature	°C Mixture has not been tested	°F Mixture has not been tested
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Upper explosion limit	Mixture has not been tested	
Lower explosion limit	Mixture has not been tested	
Vapor Pressure	17.5 mmHg	
Relative density	Mixture has not been tested	
Specific gravity	1.0	
Solubility	Not Applicable	
Partition coefficient: n-octanol/water	No data available	
Explosive properties	Mixture has not been tested	

Other information

HOW TO DETECT THIS SUBSTANCE (identification properties): There are no good identification properties in event of a spill.

SECTION 10: Stability and reactivity

Chemical stability	This product is stable.
Possibility of hazardous reactions	will not occur.
Conditions to avoid	Avoid extreme temperatures and contact with incompatible chemicals.
Incompatible materials	This product is incompatible with strong acids, strong reducing agents, acid chlorides, phosphorous trichloride, phosphorous pentachloride, phosphorous oxychloride and other materials which are water reactive.
Hazardous decomposition products	If exposed to extremely high temperatures, water will boil and form steam. Hydrolysis: None.

SECTION 11: Toxicological information

Information on hazard classes as defined in Regulation (EC) No 1272/2008

This product should not pose any hazard through normal routes of exposure in an occupational setting.

Inhalation: This product does not pose a hazard by inhalation.

Contact with Skin or Eyes: This product does not pose a hazard by contact with the skin or eyes.

Skin Absorption: Skin absorption is not a potentially route of exposure for this product.

Ingestion: Ingestion is not anticipated to be a likely route of occupational exposure. Ingestion of copious amounts of water can cause electrolyte imbalance and can be fatal in extreme cases.

Injection: Injection is not likely to cause adverse effect.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms. Exposure to this product is not expected to cause either acute or chronic health effects.

Acute: None applicable.

Chronic: None applicable.

TARGET ORGANS:

Acute: None.

Chronic: None.

TOXICITY DATA: The following toxicological data are available for water.

WATER:

LDLo (Rectal-Woman) 180 gm/kg/28 hours: Sense Organs and Special Senses (Eye): mydriasis (pupillary dilation);

Behavioral: convulsions or effect on seizure threshold; Gastrointestinal: nausea or vomiting

TDLo (Oral-Infant) 333 gm/kg: Behavioral: convulsions or effect on seizure threshold; Gastrointestinal: hypermotility, diarrhea; Nutritional and Gross Metabolic: body temperature increase

TDLo (Oral-Man) 42.86 gm/kg: Behavioral: tremor, muscle contraction or spasticity

LD50 (Oral-Rat) > 90 mL/kg

LD50 (Intraperitoneal-Mouse) 190 gm/kg

LD50 (Intravenous-Mouse) 25 gm/kg

LDLo (Oral-Dog) 629 gm/kg

LDLo (Oral-Cat) 320 gm/kg: Behavioral: convulsions or effect on seizure threshold

LDLo (Oral-Rabbit) 368 gm/kg: Behavioral: convulsions or effect on seizure threshold

LDLo (Oral-Guinea Pig) 429 gm/kg: Behavioral: convulsions or effect on seizure threshold

LDLo (Rectal-Rabbit) 450 gm/kg: Sense Organs and Special Senses (Eye): mydriasis (pupillary dilation); Behavioral: muscle contraction or spasticity; Gastrointestinal: changes in structure or function of salivary glands

LDLo (Intravenous-Rabbit) 13 gm/kg: Blood: other hemolysis with or without anemia

TDLo (Oral-Rabbit) 3502 gm/kg/2 weeks-intermittent: Behavioral: convulsions or effect on seizure threshold, muscle weakness; Related to Chronic Data: death.

Principal Routes of Exposure

Skin corrosion/irritation None.

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin sensitization This material is not known to be a human skin or respiratory sensitizer.

Specific target organ toxicity (STOT) – single exposure Data are conclusive but insufficient for classification

Specific target organ toxicity (STOT) – repeated exposure Data are conclusive but insufficient for classification

Carcinogenicity This material is not found on the following lists: U.S. EPA, U.S. NTP, U.S. OSHA, U.S. NIOSH, GERMAN MAK, IARC, and ACGIH, and therefore are not considered to be, nor suspected to be cancer-causing agents by these agencies.

Germ cell mutagenicity Data are conclusive but insufficient for classification.

Reproductive toxicity This product will not cause human mutagenic, embryotoxic, teratogenic or reproductive toxicity.

Aspiration hazard

Data are conclusive but insufficient for classification

SYNERGISTIC MATERIALS

No synergistic materials are known.

ACGIH BIOLOGICAL EXPOSURE INDICES (BEIs)

Currently, ACGIH Biological Exposure Indices (BEIs) have not been determined for the components of this product.

SECTION 12: Ecological information**Toxicity**

Water does not pose and hazard to plants and animals in the aquatic environment.

Mobility in soil

Water is completely mobile in soil.

Persistence and degradability

Water poses no threat of persistence and does not biodegrade.

Bioaccumulative potential

Water has no bio-accumulation potential.

Results of PBT and vPvB assessment

No information available.

EXPOSURE CONTROLS: Not applicable.

Other adverse effects

Water does not have any ozone depletion potential.

SECTION 13: Disposal considerations**Waste treatment methods**

It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste per regulations of the area in which the waste is generated and/or disposed of. Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This liquid, if unaltered by use, may be disposed of as advised by your local wastewater regulatory authority.

CONTAINERS: Waste materials must be placed in and shipped in appropriate 5-gallon or 55-gallon poly or metal waste pails or drums. Permeable cardboard containers are not appropriate and should not be used. Ensure that any required marking or labeling of the containers be done to all applicable regulations.

TO BE FOLLOWED DURING WASTE HANDLING: Wear proper protective equipment when handling waste materials.

EPA Waste number

Not Applicable

WASTE CODES: Not applicable.

SECTION 14: Transport information**INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA)**

This product is not classified as dangerous goods, per the International Air Transport Association.

UN number or ID number

Not Applicable

UN proper shipping name

Not Applicable

Transport hazard class(es)

Not Applicable

Packing group

Not Applicable

U.S. DEPARTMENT OF TRANSPORTATION REGULATIONS

This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

UN number or ID number	Not Applicable
UN proper shipping name	Not Applicable
Transport hazard class(es)	Not Applicable
Packing group	Not Applicable

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

UN number or ID number	Not Applicable
UN proper shipping name	Not Applicable
Transport hazard class(es)	Not Applicable
Packing group	Not Applicable

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO)

This product is not classified as dangerous goods, per the International Maritime Organization.

UN number or ID number	Not Applicable
UN proper shipping name	Not Applicable
Transport hazard class(es)	Not Applicable
Packing group	Not Applicable

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR)

This product is not classified by the Economic Commission for Europe to be dangerous goods.

UN number or ID number	Not Applicable
UN proper shipping name	Not Applicable
Transport hazard class(es)	Not Applicable
Packing group	Not Applicable

Environmental hazards

This material does not meet the criteria of environmentally hazardous according to the criteria of the UN Model Regulations (as reflected in the IMDG Code, ADR, RID, and ADN); components are not specifically listed in Annex III under MARPOL 73/78

Special precautions for user

Not Applicable

Maritime transport in bulk according to IMO instruments

Not Applicable.

SECTION 15: Regulatory information

United States regulations

U.S. SARA Reporting Requirements: Water is NOT subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA Section 302 Threshold Planning Quantity (TPQ): None.

U.S. SARA Section 304 Reportable Quantity (RQ): None

U.S. CERCLA Reportable Quantity (RQ): Not applicable.

U.S. TSCA Inventory Status: Water is excepted from being listed on the TSCA Inventory.

Other U.S. Federal Regulations: Not applicable.

California Proposition 65

The components of this product are not on the California Proposition 65 Lists.

Canadian regulations

Revision date 03-Jan-2025
Product code WATER

Page 9 / 11
Product name Water

Canadian DSL/NDSL Status: Water is excepted from listing on DSL or NDSL Inventories.
Other Canadian Regulations: Not applicable.
Canadian Environmental Protection Agency (CEPA) Priorities Substances List: Not applicable.

WHMIS Hazard Class

Not applicable

SECTION 16: Other information

Reason for revision	SDS sections updated.
Revision number	2
Revision date	03-Jan-2025

Product Use: Various.

References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

Abbreviations and acronyms

TWA - Time-Weighted Average
OELs - Occupational Exposure Limits
STEL - Short Term Exposure Limit
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
KECL - Korean Existing and Evaluated Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CEPA - Canadian Environmental Protection Act
EPA - Environmental Protection Agency
OSHA - Occupational Safety and Health Administration of the US Department of Labor
IATA - International Air Transport Association
DOT - Department of Transportation
IMDG - International Maritime Dangerous Goods
ACGIH - American Conference of Governmental Industrial Hygienists
NIOSH - National Institute for Occupational Safety and Health
AIHA - American Industrial Hygiene Association
HMIS - Department of Defense Hazardous Materials Information System
NTP - National Toxicology Program
IARC - International Agency for Research on Cancer

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

Revision date 03-Jan-2025
Product code WATER

Page 10 / 11
Product name Water

End of Safety Data Sheet

Revision date 03-Jan-2025
Product code WATER

Page 11 / 11
Product name Water