Material Safety Data Sheet

Water, sterile (nuclease free), DEPC-treated

ACC# 92600

Section 1 - Chemical Product and Company Identification

MSDS Name: Water, sterile (nuclease free), DEPC-treated
Catalog Numbers: BP2484-100, BP2484-50, BP561-1, NC9853571
Synonyms: Diethyl pyrocarbonate (DEPC)-treated water is guaranteed nuclease-free (tested for both DNase and RNase) and is suitable for all RNA work.
Company Identification:
Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7732-18-5	Water	>99	231-791-2
1609-47-8	Diethyl pyrocarbonate	0.1	216-542-8

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear, colorless liquid.
Expected to be non-hazardous.
Target Organs: None.

Potential Health Effects

Eye: Non-irritating to the eyes.
Skin: Non-irritating to the skin.
Ingestion: No hazard expected in normal industrial use.
Inhalation: No hazard expected in normal industrial use.
Chronic: None

Section 4 - First Aid Measures

Eyes: No specific treatment is necessary, since this material is not likely to be hazardous.
Skin: No specific treatment is necessary, since this material is not likely to be hazardous.
Ingestion: No specific treatment is necessary, since this material is expected to be non-hazardous.
Inhalation: No specific treatment is necessary since this material is not likely to be hazardous by inhalation.
Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn.
Extinguishing Media: Not available.
Flash Point: Not applicable.
Autoignition Temperature: Not applicable.
Explosion Limits, Lower:Not available.
Upper: Not available.
NFPA Rating: (estimated) Health: 0; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Section 7 - Handling and Storage

Handling: No special handling procedures are required.
Storage: No special storage requirements.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: There are no special ventilation requirements.
Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Water	none listed	none listed	none listed
Diethyl pyrocarbonate	none listed	none listed	none listed

OSHA Vacated PELs: Water: No OSHA Vacated PELs are listed for this chemical. Diethyl pyrocarbonate: No OSHA Vacated PELs are listed for this chemical.
Personal Protective Equipment
Eyes: Eye protection is not normally required.
Skin: Protective garments not normally required.
Clothing: Protective garments not normally required.
Respirators: Respirator protection is not normally required.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Appearance: clear, colorless
Odor: none reported
pH: Not available.
Vapor Pressure: 17.5 mm Hg @ 20 deg C.
Vapor Density: Not available.
Evaporation Rate:Not available.
Viscosity: 1 cP @ 20 deg C
Boiling Point: 100 deg C
Freezing/Melting Point:Not available.
Decomposition Temperature:Not available.
Solubility: Not available.
Specific Gravity/Density:1.000
Molecular Formula:H2O
Molecular Weight:18.02

Section 10 - Stability and Reactivity

Chemical Stability: Stable.
Conditions to Avoid: None reported.
Incompatibilities with Other Materials: Water reactive substances..
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:
CAS# 7732-18-5: ZC0110000
CAS# 1609-47-8: LQ9350000
LD50/LC50:
CAS# 7732-18-5:
    Oral, rat: LD50 = >90 mL/kg;
.

CAS# 1609-47-8:
    Oral, mouse: LD50 = 1558 mg/kg;
    Oral, rabbit: LD50 = 500 mg/kg;

Oral, rat: LD50 = 850 mg/kg;
.

Carcinogenicity:
CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 1609-47-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: No data available.
Mutagenicity: No data available.
Neurotoxicity: No data available.
Other Studies:

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 7732-18-5 is listed on the TSCA inventory.
CAS# 1609-47-8 is listed on the TSCA inventory.
Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.
SARA Codes
CAS # 1609-47-8: immediate, fire, reactive.
Section 313 No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.
STATE
CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
CAS# 1609-47-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives
Hazard Symbols:
Not available.
Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)
CAS# 7732-18-5: No information available.
CAS# 1609-47-8: No information available.
Canada - DSL/NDSL
CAS# 7732-18-5 is listed on Canada's DSL List.
CAS# 1609-47-8 is listed on Canada's DSL List.
Canada - WHMIS
This product has a WHMIS classification of Not controlled..
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.
Canadian Ingredient Disclosure List

Section 16 - Additional Information

MSDS Creation Date: 12/09/2002
Revision #3 Date: 3/23/2006

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