Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: PHA-DI
Product Identity: Deionized Water

Chemical Family: Not Applicable
Synonyms: Not Applicable
Recommended Use: Laboratory chemicals

Issue Date: 04/02/09
Revision Date: 08/10/10

Section 2 – Hazard Identification

Emergency Overview: Non-flammable, non-corrosive, non-toxic. Does not present significant health hazards. Wash areas of contact with water.
Appearance: Clear, colorless liquid
Odor: Odorless
Target Organs: None known
Potential Health Effects/ Routes of Exposure:
Eyes: May cause slight irritation.
Skin: May cause slight irritation.
Ingestion: Large doses may cause upset stomach.
Inhalation: Not likely to be a hazard.
Chronic Effect / Carcinogenicity: None (IARC, NTP, OSHA)
Aggravated Medical Conditions: No information available
These chemicals are not considered hazardous by OSHA.
See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Dihydrogen Oxide, purified, CAS# 7732-18-5, 100% w/v

Section 4 – First Aid

Eyes: No treatment is necessary
Skin: No treatment is necessary
Ingestion: No treatment is necessary
Inhalation: No treatment is necessary
Notes to Physician: Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable
Autoignition Temperature: No information available.
Explosion Limits Upper: No data available
Explosion Limits Lower: No data available
Extinguishing Media: Use means suitable to extinguishing surrounding fire.
Unsuitable Extinguishing Media: No information available
Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.
Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.
Hazardous Combustion Products: No information Available
Sensitivity to mechanical impact: No information available.
Sensitivity to static discharge: No information available.
Specific Hazards Arising from the Chemical: No information available
NFPA Rating: (estimated) Health: 0; Flammable: 0; Reactivity: 0
Section 6 – Accidental Release Measures

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** Not relevant considering the small amounts used.

**Methods for Containment and Clean Up** Absorb with suitable material. Always obey local regulations. Always obey local regulations.

Section 7 – Handling and Storage

**Handling:** Wash hands after handling. Avoid contact with skin and eyes.

**Storage:** Protect from freezing and physical damage.

Section 8 – Exposure Controls, Personal Protection

Dihydrogen Oxide, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

**Engineering Measures/ General Hygiene:** Normal ventilation is adequate. Ensure eyewash and safety showers are available.

**Personal Protection Equipment:**

- **Skin Protection:** Chemical resistant gloves.
- **Eye/Face Protection:** Safety Glasses or goggles.
- **Respiratory Protection:** Normal ventilation is adequate

Section 9 – Physical and Chemical Properties

**Appearance/Physical State:** Clear, colorless liquid

**Odor:** Odorless

**Boiling Point:** 100 C

**Melting Point:** No information available

**Vapor Density:** No Information Available

**Evaporation Rate:** No Information Available

**pH:** Not Available

**Flammability:** No Information Available

**Solubility:** No information available

**Relative Density:** No Information Available

**Molecular Weight:** 18.02

Section 10 – Stability and Reactivity

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatible Materials** None known

**Conditions to Avoid:** None known

**Hazardous Decomposition Products:** None under normal use

**Hazardous Polymerization:** Does not occur

**Hazardous Reactions:** None under normal processing.

Section 11 – Toxicological Information

**Routes of Exposure/Symptoms/Corrosiveness** – See Section 2

**LD50 orl-rat:** 90mL/kg  **LC50 inhalation-rat:** Not Available

**Irritation:** No Information Available

**Toxicologically Synergistic:** No Information Available

**Chronic Exposure**

- **Carcinogenicity** No Information Available
- **Sensitization** No information available.
- **Mutagenic Effects** No information available.
- **Reproductive Effects** No information available.
- **Developmental Effects (Immediate/Delayed)** No information available.
- **Teratogenicity** No information available.

**Other Adverse Effects** No Information Available.
Endocrine Disruptor Information  No information available

Section 12 – Ecological Information

Ecotoxicity: Not Available.
Persistence and Degradability: No Information Available  Mobility: No Information Available
Bioaccumulation/Accumulation: No Information Available

Section 13 – Disposal Considerations

All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT - Not Regulated

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are not considered hazardous by OSHA.
Canada DSL: These chemicals are listed on the Canada DSL list.
TSCA: The components of this solution are listed on the TSCA Inventory
SARA Title III Section 313: Not Applicable
RCRA Status: Not Applicable
CERCLA Reportable Quantity: Not Applicable
WHMIS: Not Controlled

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.