Safety Data Sheet
according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 01.08.2015

Deionized Water, Type II

SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Deionized Water, Type II

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: PHA-DI

Recommended uses of the product and restrictions on use:

Manufacturer Details:
A004305

Supplier Details:
Omega Engineering Inc.
One Omega Drive, Box 4047, Stamford, CT 06907
(203)359-7694

Emergency telephone number:
Omega Engineering Inc.  TELEX:996404 FAX: 203/359-7770

SECTION 2: Hazards identification

Classification of the substance or mixture:
Not classified for physical or health hazards under GHS.

Hazard statements:

Precautionary statements:

Other Non-GHS Classification:

WHMIS
NFPA/HMIS

NFPA SCALE (0-4)

HMIS RATINGS (0-4)

SECTION 3: Composition/information on ingredients

Ingredients:

<table>
<thead>
<tr>
<th>CAS 7732-18-5</th>
<th>Deionized Water</th>
<th>100 %</th>
</tr>
</thead>
</table>

Percentages are by weight.

Created by Global Safety Management, 1-813-435-5161 - www.GSMSDS.com
SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Move exposed individual to fresh air.
After skin contact: Wash affected area with soap and water.
After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.
After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Indication of any immediate medical attention and special treatment needed:
If seeking medical attention, provide SDS document to physician.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: If in laboratory setting, follow laboratory fire suppression procedures.
For safety reasons unsuitable extinguishing agents: None

Special hazards arising from the substance or mixture:
None

Advice for firefighters:

Protective equipment: None
Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Stop the spill, if possible. Contain spilled material by diking or using inert absorbent.

Environmental precautions:
Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.

Methods and material for containment and cleaning up:
If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.

Reference to other sections:
None

SECTION 7 : Handling and storage

Precautions for safe handling:
Follow good hygiene procedures when handling chemical materials. Avoid splashes or spray in enclosed areas.

Conditions for safe storage, including any incompatibilities:
Store in cool, dry conditions in well sealed containers.

SECTION 8 : Exposure controls/personal protection
Control Parameters: No applicable occupational exposure limits.

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling.

Respiratory protection: Not required under normal conditions of use. Use suitable respiratory protective device when aerosol or mist is formed.

Protection of skin: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Eye protection: Safety glasses with side shields or goggles.

General hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

SECTION 9 : Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance (physical state,color)</td>
<td>Clear, colorless liquid.</td>
</tr>
<tr>
<td>Explosion limit lower</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Explosion limit upper</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>17.5 mmHg @20C</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>pH-value</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Relative density</td>
<td>1,000</td>
</tr>
<tr>
<td>Melting/Freezing point</td>
<td>0C</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>100C</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flash point (closed cup)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Auto/Self-ignition temperature</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flammability (solid,gaseous)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>a. Kinematic:Not Determined</td>
</tr>
<tr>
<td>Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td></td>
<td>b. Dynamic: Not Determined</td>
</tr>
</tbody>
</table>

SECTION 10 : Stability and reactivity

Reactivity: None

Chemical stability: No decomposition if used and stored according to specifications.

Possible hazardous reactions: None

Conditions to avoid: Store away from oxidizing agents, strong acids or bases.

Incompatible materials: Strong acids. Strong bases.
Hazardous decomposition products: Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Acute Toxicity</th>
<th>No additional information.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Toxicity</td>
<td>No additional information.</td>
</tr>
<tr>
<td>Corrosion Irritation</td>
<td>No additional information.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>No additional information, None</td>
</tr>
<tr>
<td>Single Target Organ (STOT):</td>
<td>No additional information, None</td>
</tr>
<tr>
<td>Numerical Measures:</td>
<td>No additional information.</td>
</tr>
<tr>
<td>Carcinogenicity:</td>
<td>No additional information.</td>
</tr>
<tr>
<td>Mutagenicity:</td>
<td>No additional information, None</td>
</tr>
<tr>
<td>Reproductive Toxicity:</td>
<td>No additional information, None</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

Ecotoxicity None
Persistence and degradability: Readily degradable in the environment.
Bioaccumulative potential: None
Mobility in soil: Aqueous solution has high mobility in soil.
Other adverse effects: None

SECTION 13: Disposal considerations

Waste disposal recommendations:
Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

SECTION 14: Transport information

UN-Number
Not Dangerous Goods

UN proper shipping name
Not Dangerous Goods

Transport hazard class(es)
Packing group: Not Dangerous Goods
Environmental hazard: None
Transport in bulk:
Special precautions for user: None

SECTION 15: Regulatory information
United States (USA)

**SARA Section 311/312 (Specific toxic chemical listings):**
None of the ingredients is listed

**SARA Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed

**RCRA (hazardous waste code):**
None of the ingredients is listed

**TSCA (Toxic Substances Control Act):**
All ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**
None of the ingredients is listed

**Proposition 65 (California):**

**Chemicals known to cause cancer:**
None of the ingredients is listed

**Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed

**Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed

**Chemicals known to cause developmental toxicity:**
None of the ingredients is listed

**Canada**

**Canadian Domestic Substances List (DSL):**
All ingredients are listed.

**Canadian NPRI Ingredient Disclosure list (limit 0.1%):**
None of the ingredients is listed

**Canadian NPRI Ingredient Disclosure list (limit 1%):**
None of the ingredients is listed

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**SECTION 16 : Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**GHS Full Text Phrases:**
None

**Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
PNEC: Predicted No-Effect Concentration (REACH)
Deionized Water, Type II

CFR: Code of Federal Regulations (USA)
SARA: Superfund Amendments and Reauthorization Act (USA)
RCRA: Resource Conservation and Recovery Act (USA)
TSCA: Toxic Substances Control Act (USA)
NPRI: National Pollutant Release Inventory (Canada)
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)

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Last updated: 05.29.2015