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

1.1 Product identifiers
   - Product Name: PEG/Ion HT™ Crystallization Kit
   - Product Number: HR2-139
   - Product Type: Liquid
   - Product Brand: Hampton Research
   - REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Identified uses: Laboratory chemicals, Manufacture of substances.

1.3 Details of the supplier of the Safety Data Sheet
   - Company: Hampton Research
     34 Journey
     Aliso Viejo, CA 92656-3317
     United States
   - Telephone: 949 425 1321
     Telephone technical support is available 8:00 a.m. to 4:30 p.m. USA Pacific Standard Time.
   - Fax: 949 425 1611
     Fax Technical Support is available 24 hours a day.
   - e-mail: tech@hrmail.com
     e-mail Technical Support is available 24 hours a day.

1.4 Emergency telephone number
   - Emergency phone: 949 425 1321
   - For CHEMTREC Assistance: 800 424 9300
   - For CHEMTREC Assistance: 703 527 3887 (International)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture
   - Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
     For the full text of H-Statements: see SECTION 16
   - Classification according to EU Directives 67/548/EEC or 1999/45/EC
     see SECTION 16
   - Additional information:
     For full text of R-phrases: see SECTION 16
SECTION 4: First Aid Measures

2.2 Label elements

Hazard pictogram : Not applicable
Signal word : Not applicable
Hazard statement(s) : Not applicable
Precautionary statement(s) : Not applicable
Supplemental Hazard Statements : Not applicable

Hazard symbol(s) : Not applicable
R-phrase(s) : Not applicable
S-phrase(s) : Not applicable

2.3 Other hazards : none

SECTION 3: Composition/information on ingredients

Refer to Section 16

SECTION 5: Fire Fighting Measures

No data available

SECTION 6: Accidental Release Measures

6.1 Personal Precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see SECTION 8 and 13.
SECTION 7: Handling and Storage

7.1 Personal Precautions
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
See SECTION 8 for additional information on hygiene measures. For precautions see SECTION 16.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses
No data available

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters
Components with workplace control parameters
Consult a physician. Show this safety data sheet to the doctor in attendance.

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

  Eye/face protection
  Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

  Skin protection
  Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

  Body Protection
  Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

  Respiratory protection
  For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental Exposure Controls
See SECTION 6
**SECTION 9: Physical and Chemical Properties**

No data available

**SECTION 10: Stability and Reactivity**

No data available

**SECTION 11: Toxicological Information**

No data available

**SECTION 12: Ecological Information**

No data available

**SECTION 13: Disposal Considerations**

13.1 **Waste treatment methods**

**Product**
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**
Dispose of as unused product.

**SECTION 14: Transportation Information**

14.1 **UN number**

ADR/RID: 3316  
IMDG: 3316  
IATA: 3316

14.2 **UN proper shipping name**

ADR/RID: CHEMICAL KIT  
IMDG: Chemical kit  
IATA: Chemical kit

14.3 **Transport hazard class(es)**

ADR/RID: 9  
IMDG: 9  
IATA: 9

14.4 **Packaging group**

ADR/RID: III  
IMDG: III  
IATA: III

14.5 **Environmental hazards**

ADR/RID: No  
IMDG Marine pollutant: no  
IATA: No

14.6 **Special precautions for user**

no data available
SECTION 15: Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available

15.2 Chemical Safety Assessment
No data available

SECTION 16: Other Information

<table>
<thead>
<tr>
<th>Kit Components</th>
<th>[CAS]</th>
<th>R-Phrase</th>
<th>S-Phrase</th>
<th>GHS Pictogram</th>
<th>Hazard Statement</th>
<th>Precautionary Statement</th>
<th>WKG</th>
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### Kit Components

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### Relevant R-phrase(s), S-phrase(s), Hazard code(s), Hazard statement(s), and Precautionary statement(s)

#### Risk Phrase(s)
- **R 8**: Contact with combustible material may cause fire
- **R 20/21/22**: Harmful by inhalation, in contact with skin and if swallowed
- **R 22**: Harmful if swallowed
- **R 23/25**: Toxic by inhalation and if swallowed
- **R 23/24/25**: Toxic by inhalation, in contact with skin and if swallowed
- **R 25**: Toxic if swallowed
- **R 26**: Very Toxic by inhalation
- **R 32**: Contact with acids liberates very toxic gas
- **R 34**: Causes burns
- **R 36**: Irritating to the eyes
- **R 36/37**: Irritating to eyes and respiratory system
- **R 36/38**: Irritating to eyes and skin
- **R 37/38**: Irritating to respiratory system and skin
- **R 36/37/38**: Irritating to eyes, respiratory system and skin
- **R 38**: Irritating to the skin
- **R 41**: Risk of serious damage to eyes
- **R 42/43**: May cause sensitization by inhalation and skin contact
- **R 45**: May cause cancer
(CONTINUED) - SECTION 16: Other Information

Relevant R-phrase(s), S-phrase(s), Hazard code(s), Hazard statement(s), and Precautionary statement(s)

Risk Phrase(s)
R 46 : May cause heritable genetic damage
R 48/23 : Toxic: danger of serious damage to health by prolonged exposure through inhalation
R 48/23/25 : Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed
R 49 : May cause cancer by inhalation
R 50 : Very Toxic to aquatic organisms
R 50/53 : Very Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R 52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R 60 : May impair fertility
R 61 : May cause harm to the unborn child
R 68 : Possible risk of irreversible effects

Safety Phrase(s)
S 13 : Keep away from food, drink and animal feeding stuffs
S 17 : Keep away from combustible material
S 22 : Do not breathe dust
S 24 : Avoid contact with skin
S 24/25 : Avoid contact with skin and eyes
S 26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S 36 : Wear suitable protective clothing and seek medical advice
S 36/37 : Wear suitable protective clothing and gloves
S 36/39 : Wear suitable protective clothing and eye/face protection
S 36/37/39 : Wear suitable protective clothing, gloves and eye/face protection
S 45 : In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
S 46 : If swallowed, seek medical advice immediately and show this container or label
S 53 : Avoid exposure - obtain special instruction before use
S 60 : This material and/or its container must be disposed of as hazardous waste
S 61 : Avoid release to the environment. Refer to special instructions safety data sheet

GHS Pictogram(s)
GHS03 : Oxidising gases
GHS05 : Corrosion
GHS06 : Acute toxicity
GHS07 : Acute toxicity
GHS08 : Health Hazard
GHS09 : Environment
Relevant R-phrase(s), S-phrase(s), Hazard code(s), Hazard statement(s), and Precautionary statement(s)

**Hazard statement(s)**
- H272 : May intensify fire; oxidizer
- H301 : Toxic if swallowed
- H302 : Harmful if swallowed
- H311 : Toxic in contact with skin
- H312 : Harmful in contact with skin
- H314 : Causes severe skin burns and eye damage
- H315 : Causes skin irritation
- H317 : May cause an allergic skin reaction
- H318 : Causes serious eye damage
- H319 : Causes serious eye irritation
- H330 : Fatal if inhaled
- H331 : Toxic if inhaled
- H332 : Harmful if inhaled
- H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 : May cause respiratory irritation
- H340 : May cause genetic defects
- H341 : Suspected of causing genetic defects
- H350 : May cause cancer
- H350i : May cause cancer by inhalation
- H360 : May damage fertility or the unborn child
- H360F : May damage fertility
- H360FD : May damage fertility. May damage the unborn child
- H372 : Causes damage to organs through prolonged or repeated exposure
- H400 : Very toxic to aquatic life
- H410 : Very toxic to aquatic life with long lasting effects
- H412 : Harmful to aquatic life with long lasting effects

**Precautionary statement(s)**
- P201 : Obtain special instructions before use.
- P220 : Keep/Store away from clothing/combustible materials.
- P260 : Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.
- P273 : Avoid release to the environment.
- P280 : Wear protective gloves/protective clothing/eye protection/face protection.
- P284 : Wear respiratory protection.
- P301 + P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 : IF exposed or concerned: Get medical advice/attention.
- P310 : Immediately call a POISON CENTER or doctor/physician.
- P311 : Call a POISON CENTER or doctor/physician.
- P501 : Dispose of contents/container to a licensed disposal company.
DISCLAIMER
For research use only. Not for drug, household, or other use.

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of this product. Hampton Research Corp., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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