SECTION 1: Product and Company Information

Product Name	:	PEG/Ion HT, 1 ml, Deep Well block format
Product Number	:	HR2-139
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.
Identified Uses	:	For research and development only. Not for drug, household or other use.

Supplier	:	Hampton Research 34 Journey Aliso Viejo, CA 92656-3317 United States
Telephone	:	1 949 425 1321
Fax	:	1 949 425 1611
E-mail	:	info@hrmail.com
Web	:	https://hamptonresearch.com/

SECTION 2: Hazards Identification

Physical State	:	Liquid
Signal Word	:	Warning
Label Elements	:	

CLP Regulation Classification according to Regulation (EC) No 1272/2008
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Dermal (Category 4), H312
Acute toxicity, Inhalation (Category 4), H332
Skin corrosion (Category 2), H315
Eye irritation (Category 2), H319
Skin sensitization (Category 1), H317
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Hazard statement(s)
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

(CONTINUED) - SECTION 2: Hazards Identification

Precautionary statement(s)
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Supplemental Hazard Statements
None

SECTION 3: Composition / Information on Ingredients

Name	CAS	%
Polyethylene glycol 3,350	25322-68-3	18.3%
Malonic acid	141-82-2	0.1%
Sodium malonate	141-82-2	0.1%
Sodium acetate trihydrate	6131-90-4	0.1%
Ammonium citrate tribasic	3458-72-8	0.1%
Ammonium tartrate dibasic	3164-29-2	0.1%
BIS-TRIS propane	64431-96-5	0.1%
Sodium citrate tribasic dihydrate	6132-04-3	0.09%
HEPES sodium	75277-39-3	0.08%
DL-Malic acid	6915-15-7	0.07%
Potassium citrate tribasic monohydrate	6100-05-6	0.07%
Sodium sulfate decahydrate	7727-73-3	0.07%
Sodium formate	141-53-7	0.06%
Potassium sodium tartrate tetrahydrate	6381-59-5	0.06%
Lithium citrate tribasic tetrahydrate	6080-58-6	0.06%
Citric acid	77-92-9	0.05%
Magnesium nitrate hexahydrate	13446-18-9	0.05%
Magnesium sulfate heptahydrate	10034-99-8	0.05%
Sodium tartrate dibasic dihydrate	6106-24-7	0.05%
Succinic acid	110-15-6	0.05%
Ammonium citrate dibasic	3012-65-5	0.05%
Zinc acetate dihydrate	5970-45-6	0.05%
Magnesium acetate tetrahydrate	16674-78-5	0.04%
Magnesium chloride hexahydrate	7791-18-6	0.04%
Sodium phosphate dibasic dihydrate	10028-24-7	0.04%
Potassium sulfate	7778-80-5	0.04%
Potassium phosphate dibasic	7758-11-4	0.04%
Potassium iodide	7681-11-0	0.03%

(CONTINUED) - SECTION 3: Composition / Information on Ingredients

Name	CAS	%
Calcium chloride dihydrate	10035-04-8	0.03%
Calcium acetate hydrate	114460-21-8	0.03%
Magnesium formate dihydrate	557-39-1	0.03%
Sodium iodide	7681-82-5	0.03%
Ammonium iodide	12027-06-4	0.03%
Sodium phosphate monobasic monohydrate	10049-21-5	0.03%
Potassium phosphate monobasic	7778-77-0	0.03%
Ammonium sulfate	7783-20-2	0.03%
Ammonium phosphate dibasic	7783-28-0	0.03%
Lithium sulfate monohydrate	10102-25-7	0.03%
Cesium chloride	7647-17-8	0.03%
HEPES	7365-45-9	0.02%
Ammonium phosphate monobasic	7722-76-1	0.02%
BIS-TRIS	6976-37-0	0.02%
Sodium bromide	7647-15-6	0.02%
Lithium acetate dihydrate	6108-17-4	0.02%
Potassium nitrate	7757-79-1	0.02%
Tryptone	91079-40-2	0.02%
Potassium acetate	127-08-2	0.02%
Potassium thiocyanate	333-20-0	0.02%
Sodium nitrate	7631-99-4	0.02%
Potassium formate	590-29-4	0.02%
Sodium thiocyanate	540-72-7	0.02%
Ammonium nitrate	6484-52-2	0.02%
Ammonium acetate	631-61-8	0.02%
Potassium chloride	7447-40-7	0.02%
Lithium nitrate	7790-69-4	0.01%
Ammonium formate	540-69-2	0.01%
Tris	77-86-1	0.01%
Sodium chloride	7647-14-5	0.01%
Potassium fluoride	7789-23-3	0.01%
Ammonium chloride	12125-02-9	0.01%
Lithium chloride	7447-41-8	0.009%
Sodium fluoride	7681-49-4	0.009%
Ammonium fluoride	12125-01-8	0.008%
Cobalt(II) chloride hexahydrate	7791-13-1	0.005%
Cadmium chloride hydrate	654054-66-7	0.004%
Zinc chloride	7646-85-7	0.003%
Nickel(II) chloride hexahydrate	7791-20-0	0.001%
Sodium azide	26628-22-8	0.0001%

SECTION 4: First Aid Measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

SECTION 5: Fire-Fighting Measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage

Handling

Wear appropriate personal protective equipment including but not limited to safety glasses, gloves and lab coat. Do not ingest. Avoid contact with eyes, skin and clothing. no eating, drinking, or smoking in work areas. Use with adequate ventilation. Keep in original container or approved container with compatible material. Keep closed or sealed when not in use. Do not reuse container.

Storage

Store between -20 to 25 degrees Celsius. Keep container tightly closed or sealed in a dry well-ventilated space.

SECTION 8: Exposure Controls / Personal Protection

Occupational/Personal exposure limits

No exposure limit value known.

Appropriate exposure 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

Respiratory protection is not required. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: Physical and Chemical Properties

Form:	Liquid
Melting point:	no data available
Boiling point:	no data available
Flash point:	no data available
Ignition temperature:	no data available
Lower explosion limit:	no data available
Upper explosion limit:	no data available
Water solubility:	no data available

SECTION 10: Stability and Reactivity

Storage stability

Stable under recommended storage conditions.

Conditions to avoid

No specific data

Incompatible materials

No specific data

Hazardous decomposition products

Under normal storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions should not be expected to occur.

SECTION 11: Toxicological Information

Acute toxicity

No data available

Irritation and corrosion

No data available

Sensitization

No data available

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

Potential health effects

Inhalation: May be harmful if inhaled.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Target Organs: Liver, Kidney

SECTION 12: Ecological Information

Elimination information (persistence and degradability)

No data available

Ecotoxicity effects

No data available

Persistence/degradability

No data available

Further information on ecology

No data available

SECTION 13: Disposal Considerations

Product

Observe all federal, state, regional and local environmental and disposal regulation. Offer surplus and non-recyclable solutions to a licensed waste disposal company. This material and its container must be disposed of in a safe way.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transportation Information

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

SECTION 15: Regulatory Information

Labeling according to EC Directives

The product does not need to be labeled in accordance with EC directives or respective national laws.

Safety, health and environmental regulations

No data available

SECTION 16: Other Information

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 the product.

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