

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**

Product Name : PEGRx™ HT
Product Number : HR2-086
Product type : Liquid

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : For research use only. Not for drug, household, or other use.

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)

This is a summary MSDS for a kit, for the full MSDS for each of the components listed in section 16 please visit our website.

SECTION 2: Hazards Identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

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

2.2 Label elements

Hazard pictogram : Not applicable
Signal word : Not applicable

SECTION 2: Hazards Identification

Hazard statement(s) : Not applicable
Precautionary statement(s) : Not applicable
Supplemental Hazard Statements : Not applicable

2.3 Other hazards : none

SECTION 3: Composition/information on ingredients

Refer to component MSDS

SECTION 4: First Aid Measures

4.1 Description of 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. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

No specific treatment.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

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

SECTION 5: Fire Fighting Measures

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further Information

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.

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

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

SECTION 10: Stability and Reactivity

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Other decomposition products - no data available

SECTION 11: Toxicological Information

Refer to component MSDS

SECTION 12: Ecological Information

Refer to component MSDS

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: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: No

IMDG: No

IATA: No

SECTION 14: Transportation Information

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

Kit Components							
Substance Name	[CAS]	R-Phrase	S-Phrase	GHS Pictogram	Hazard Statement	Precautionary Statement	WKG
(+/-)-2-Methyl-2,4-pentanediol	107-41-5	36/38	26-36	GHS07	H315-H319	P305 + P351 + P338	1
1,4-Dioxane	123-91-1	11-19-36/37-40-66	9-16-36/37-46	GHS02, GHS07, GHS08	H225-H319-H335-H351	P210-P261-P281-P305 + P351 + P338	2
2-Propanol	67-63-0	11-36-67	7-16-24/25-26	GHS02, GHS07	H225-H319-H336	P210-P261-P305 + P351 + P338	1
Ammonium acetate	631-61-8				H315-H319-H335	P261-P305 + P351 + P338	1
Ammonium citrate tribasic	3458-72-8	36/37/38	26-36	GHS07	H315-H319-H335	P261-P305 + P351 + P338	3
Ammonium sulfate	7783-20-2						1
BICINE	150-25-4						3
BIS-TRIS	6976-37-0	36/37/38	26-36	GHS07	H315-H319-H335	P261-P305 + P351 + P338	3
BIS-TRIS propane	64431-96-5						3
Cadmium chloride hydrate	654054-66-7	45-46-60-61-25-26-48/23/25-50/53	53-45-60-61	GHS06, GHS08, GHS09	H301-H330-H340-H350-H360FD-H372-H410	P201-P260-P273-P284-P301 + P310-P310	3
Calcium chloride dihydrate	10035-04-8	36	26	GHS07	H319	P305 + P351 + P338	1
Citric acid	77-92-9	41	26-39	GHS07	H319	P305 + P351 + P338	1
CYMAL® - 7	349477-49-2						
Dextran sulfate sodium salt	9011-18-1						2
DL-Malic acid	6915-15-7	22-37/38-41	26-39	GHS05, GHS07	H302-H315-H318-H335	P261-P280-P305 + P351 + P338	1
Ethylene glycol	107-21-1	22		GHS07	H302		1

(CONTINUED) - SECTION 16: Other Information

Kit Components							
Substance Name	[CAS]	R-Phrase	S-Phrase	GHS Pictogram	Hazard Statement	Precautionary Statement	WKG
HEPES	7365-45-9						1
Imidazole	288-32-4	22-34	26-36/37/39-45	GHS05, GHS07, GHS08	H302-H314-H360D	P201-P280-P305 + P351 + P338-P310	1
Lithium sulfate monohydrate	10102-25-7	22		GHS07	H302		1
Jeffamine® ED-2001	65605-36-9						1
Jeffamine® M-600	77110-54-4	21/22-36/38	26-36/37	GHS07	H302 + H312-H315-H319	P280-P305 + P351 + P338	3
L-Proline	147-85-3						1
Magnesium chloride hexahydrate	7791-18-6						
Magnesium formate dihydrate	557-39-1		22-24/25				3
Malonic acid	141-82-2						
MES monohydrate	145224-94-8	36/37/38	26-36	GHS07	H315-H319-H335	P261-P305 + P351 + P338	3
n-Octyl-b-D-glucoside	29836-26-8						3
Nickel(II) chloride hexahydrate	7791-20-0	45-25-36/38-43-50/53	53-36/37-45-60-61	GHS06, GHS08, GHS09	H301-H315-H317-H331-H334-H341-H350i-H360-H372-H410	P201-P261-P273-P280-P301 + P310-P311	3
Polyethylene glycol 200	25322-68-3						
Polyethylene glycol 400	25322-68-3						1
Polyethylene glycol 1,000	25322-68-3						1
Polyethylene glycol 1,500	25322-68-3						1
Polyethylene glycol 3,350	25322-68-3						
Polyethylene glycol 4,000	25322-68-3						1
Polyethylene glycol 6,000	25322-68-3						1
Polyethylene glycol 8,000	25322-68-3						1
Polyethylene glycol 10,000	25322-68-3						1
Polyethylene glycol 20,000	25322-68-3						1
Polyethylene glycol monomethyl ether 550	9004-74-4						1
Polyethylene glycol monomethyl ether 2,000	9004-74-4						1
Polyethylene glycol monomethyl ether 5,000	9004-74-4						1
Potassium formate	590-29-4						2
Potassium sodium tartrate tetrahydrate	6381-59-5		22-24/25				3
Sodium acetate trihydrate	6131-90-4						1
Sodium chloride	7647-14-5						1
Sodium citrate tribasic dihydrate	6132-04-3						1
Sodium formate	141-53-7						1
Succinic Acid	110-15-6						1

(CONTINUED) - SECTION 16: Other Information

Kit Components							
Substance Name	[CAS]	R-Phrase	S-Phrase	GHS Pictogram	Hazard Statement	Precautionary Statement	WKG
Tris	77-86-1	36/37/38	26-36		H315-H319-H335	P261-P305 + P351 + P338	2

Jeffamine is a registered trademark of the Huntsman Petrochemical Corporation.

M-600 is a registered trademark of Texaco.

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

- R 11 : Highly Flammable
- R 19 : May form explosive peroxides
- R 20/22 : Harmful by inhalation and if swallowed
- R 21/22 : Harmful in contact with skin and if swallowed
- R 22 : Harmful if swallowed
- R 25 : Toxic if swallowed
- R 26 : Very Toxic by inhalation
- 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 36/37/38 : Irritating to eyes, respiratory system and skin
- R 37/38 : Irritating to respiratory system and skin
- R 40 : Limited evidence of a carcinogenic effect
- R 41 : Risk of serious damage to eyes
- R 43 : May cause sensitization by skin contact
- R 45 : May cause cancer
- R 46 : May cause heritable genetic damage
- R 48/23/25 : Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed
- R 50/53 : Very Toxic 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 66 : Repeated exposure may cause skin dryness or cracking
- R 67 : Vapors may cause drowsiness and dizziness

Safety Phrase(s)







- S 7 : Keep container tightly closed
- S 9 : Keep container in a well-ventilated place
- S 16 : Keep away from sources of ignition - No smoking
- S 22 : Do not breathe dust
- 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 36/37/39 : Wear suitable protective clothing, gloves and eye/face protection
- S 36/39 : Wear suitable protective clothing and eye/face protection
- S 39 : Wear eye/face protection

(CONTINUED) - SECTION 16: Other Information

Relevant R-phrases, S-phrase(s), Hazard code(s), Hazard statement(s), and Precautionary statement(s) (CONTINUED) - Safety Phrase(s)

- 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)

- | | | | | | |
|-------|---|-------------------|-------|---|---|
| GHS02 |  | Flammable liquids | GHS07 |  | Acute Toxicity
Eye Irrit. 2
STOT SE 3 |
| GHS05 |  | Eye Irrit. | GHS08 |  | Carcinogenicity 1A, 1B |
| GHS06 |  | Acute Toxicity | GHS09 |  | Hazardous to aquatic environment |

Hazard statement(s)

- H225 : Highly Flammable liquid and vapour
H301 : Toxic if swallowed
H302 : Harmful if swallowed
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
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 : May cause respiratory irritation
H336 : May cause drowsiness or dizziness
H340 : May cause genetic defects
H341 : Suspected of causing genetic defects
H350 : May cause cancer
H351 : Suspected of causing cancer
H360 : May damage fertility or the unborn child
H372 : Causes damage to organs through prolonged or repeated exposure
H410 : Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

- P201 : Obtain special instructions before use.
P210 : Keep away from heat/sparks/open flames/hot surfaces. — No smoking
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

(CONTINUED) - SECTION 16: Other Information

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

- P280 : Wear protective gloves/protective clothing/eye protection/face protection
- P281 : Use personal protective equipment as required
- 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.
- P305 + P351 + P338 + P310 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- P311 : Call a POISON CENTER or doctor/physician.

DISCLAIMER

For research use only. Not for drug, household, or other use.

WARRANTY

The above information is believed to be correct but does no 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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