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

1.1 Product identifiers
   Product Name : CryoPro™ Kit
   Product Number : HR2-073
   Product type : Liquid
   REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration

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)

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
SECTION 2: Hazards Identification

Classification according to EU Directives 67/548/EEC or 1999/45/EC
see SECTION 16

Additional information:
Relevant R-phrase(s), S-phrase(s), Hazard code(s), Hazard statement(s), and Precautionary statement(s) please see SECTION 16

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

2.3 Other hazards : none

SECTION 3: Composition/information on ingredients

Refer to Section 16

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.

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. 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
A part from the uses mentioned in section 1.2 no other specific uses are stipulated.
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 Section 16

SECTION 12: Ecological Information

Refer to Section 16

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 Marine pollutant: 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

<table>
<thead>
<tr>
<th>Kit Components</th>
<th>Substance Name</th>
<th>Catalog #</th>
<th>R-Phrase</th>
<th>S-Phrase</th>
<th>HAZARD Code</th>
<th>Hazard Statement</th>
<th>Precautionary Statement</th>
<th>WKG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100% (+/-)-2-Methyl-2,4-pentanediol</td>
<td>HR2-627</td>
<td>36/38</td>
<td>Xi</td>
<td>H315-H319</td>
<td>P305 + P351 + P338</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>6.0 M 1,6-Hexanediol</td>
<td>HR2-625</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>100% 1,2-Propanediol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>100% 2,3-Butanediol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>50% w/v NDSB-201</td>
<td>HR2-701</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6.0 M L-Proline</td>
<td>HR2-775</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>4.0 M Trimethylamine N-oxide dihydrate</td>
<td>HR2-777</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>100% Glycerol</td>
<td>HR2-623</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>100% Ethylene glycol</td>
<td>HR2-621</td>
<td>22</td>
<td>Xn</td>
<td>H302</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>50% v/v Diethylene glycol</td>
<td></td>
<td>22</td>
<td>46</td>
<td>Xn</td>
<td>H302</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>100% Polyethylene glycol 200</td>
<td>HR2-601</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>100% Polyethylene glycol 400</td>
<td>HR2-603</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>100% Polyethylene glycol monomethyl ether 550</td>
<td>HR2-611</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>80% v/v Polyethylene glycol 600</td>
<td>HR2-859</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>50% w/v Polyethylene glycol 1,000</td>
<td>HR2-523</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>50% w/v Polyethylene glycol 3,350</td>
<td>HR2-527</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>50% w/v Polyethylene glycol 4,000</td>
<td>HR2-529</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Kit Components

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>Catalog #</th>
<th>R-Phrase</th>
<th>S-Phrase</th>
<th>HAZARD Code</th>
<th>Hazard Statement</th>
<th>Precautionary Statement</th>
<th>WKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>50% w/v Polyethylene glycol monomethyl ether 5,000</td>
<td>HR2-615</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50% w/v Polyethylene glycol 8,000</td>
<td>HR2-535</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>50% w/v Polyethylene glycol 10,000</td>
<td>HR2-607</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>50% w/v Polyvinylpyrrolidone K 15</td>
<td>HR2-769</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>50% v/v Pentaerythritol propoxylate (5/4 PO/OH)</td>
<td>HR2-739</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>100% Polypropylene glycol P 400</td>
<td>HR2-771</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>100% Dimethyl sulfoxide (DMSO)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>70% w/v D- (+)-Sucrose</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>70% w/v D-Sorbitol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>30% w/v Maltose monohydrate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>35% w/v meso-Erythritol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>70% w/v Xylitol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>15% w/v myo-Inositol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>20% w/v D- (+)-Raffinose pentahydrate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>50% w/v D- (+)-Trehalose dihydrate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>70% w/v D- (+)-Glucose monohydrate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>10.0 M Lithium chloride</td>
<td>HR2-631</td>
<td>36/37/38</td>
<td>26-36/37/39</td>
<td>Xi</td>
<td>H315-H319-H335</td>
<td>P261-P305 + P351 + P338</td>
<td>3</td>
</tr>
<tr>
<td>4.0 M Lithium formate monohydrate</td>
<td>HR2-697</td>
<td>36/37/38</td>
<td>26-36</td>
<td>Xi</td>
<td>H315-H319-H335</td>
<td>P261-P305 + P351 + P338</td>
<td>3</td>
</tr>
<tr>
<td>8.0 M Lithium nitrate</td>
<td>HR2-697</td>
<td>8-36/37/38</td>
<td>22-26-36/37/39</td>
<td>H272-H315-H319-H335</td>
<td>P221-P210-P305+P351+P338-P302+P352-P405-P501A</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2.0 M Lithium sulfate monohydrate</td>
<td>HR2-545</td>
<td>22</td>
<td>Xn</td>
<td>H302</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>3.4 M Magnesium acetate tetrahydrate</td>
<td>HR2-561</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.0 M Sodium chloride</td>
<td>HR2-637</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>7.0 M Sodium formate</td>
<td>HR2-547</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>100% Tacsimate pH 7.0</td>
<td>HR2-755</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0 M Sodium sulfate decahydrate</td>
<td>HR2-673</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>50% v/v Ethylene glycol, 25% w/v NDSB-201</td>
<td>HR2-673</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30% w/v Polyethylene glycol 3350, 20% v/v Glycerol</td>
<td>HR2-547</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30% w/v Polyethylene glycol 400, 10% w/v Polyethylene glycol 20,000, 5% v/v Glycerol, 5% w/v NDSB-201</td>
<td>HR2-673</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

For additional information, please refer to the individual Material Safety Data Sheets(s).
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 22 : Harmful if swallowed
R 21/22 : Harmful in contact with skin and if swallowed
R 36 : Causes severe burns
R 36/37/38 : Irritating to eyes, respiratory system and skin
R 36/38 : Irritating to eyes and skin
R 37/38 : Irritating to respiratory and skin
R 41 : Risk of serious damage to burns

Safety Phrase(s)
S 17 : Keep away from combustible material
S 22 : Do not breathe dust
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 46 : If swallowed, seek medical advice immediately and show this container or label
S 36/37/39 : Wear suitable protective clothing and gloves and eye/face protection

Hazard code(s)
O : Oxidizer
Xi : Irritant
Xn : Harmful

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.
H315 : Causes skin irritation.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.

Precautionary statement(s)
P210 : Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P220 : Keep/Store away from clothing/.../combustible materials.
P221 : Take any precaution to avoid mixing with combustibles/...
P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 : Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement(s)
P301 + P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352 : IF ON SKIN: wash with plenty of soap and water.
P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 : Store locked up.
P501 : Dispose of contents/container to....

DISCLAIMER
  • For R&D 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.

  • License granted to make unlimited paper copies for internal use only.

© 1991-2020 Hampton Research Corp.