

**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)

**This is a summary SDS for a kit, for the full SDS 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

## 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 component SDS

## 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 component SDS

## SECTION 12: Ecological Information

Refer to component SDS

## 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

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

**(CONTINUED) - SECTION 16: OTHER INFORMATION**

<b>Kit Components</b>							
<b>Substance Name</b>	<b>Catalog #</b>	<b>R-Phrase</b>	<b>S-Phrase</b>	<b>HAZARD Code</b>	<b>Hazard Statement</b>	<b>Precautionary Statement</b>	<b>WKG</b>
50% w/v Polyethylene glycol monomethyl ether 5,000	HR2-615						
50% w/v Polyethylene glycol 8,000	HR2-535						1
50% w/v Polyethylene glycol 10,000	HR2-607						1
50% w/v Polyvinylpyrrolidone K 15	HR2-769						1
50% v/v Pentaerythritol propoxylate (5/4 PO/OH)	HR2-739						3
100% Polypropylene glycol P 400	HR2-771						1
100% Dimethyl sulfoxide (DMSO)							1
70% w/v D-(+)-Sucrose							2
70% w/v D-Sorbitol							2
30% w/v Maltose monohydrate							3
35% w/v meso-Erythritol							3
70% w/v Xylitol							2
15% w/v myo-Inositol							2
20% w/v D-(+)-Raffinose pentahydrate							3
50% w/v D-(+)-Trehalose dihydrate							2
70% w/v D-(+)-Glucose monohydrate							3
5.0 M Lithium acetate dihydrate	HR2-669						1
10.0 M Lithium chloride	HR2-631	22-36/37/38	26-36/37/39	Xn	H302-H315-H319-H335	P261-P305 + P351 + P338	3
4.0 M Lithium formate monohydrate		36/37/38	26-36	Xi	H315-H319-H335	P261-P305 + P351 + P338	3
8.0 M Lithium nitrate	HR2-697	8-36/37/38	22-26-36/37/39		H272-H315-H319-H335	P221-P210-P305+P351+P338-P302+P352-P405-P501A	
2.0 M Lithium sulfate monohydrate	HR2-545	22		Xn	H302		1
3.4 M Sodium malonate pH 7.0	HR2-707	22-37/38-41	26-36/37/39		H301-H315-H335-H318	P261-P301+P310-P305+P351+P338-P302+P352-P405-P501A	
3.4 M Magnesium acetate tetrahydrate	HR2-561						
5.0 M Sodium chloride	HR2-637						1
7.0 M Sodium formate	HR2-547						1
7.0 M Sodium nitrate	HR2-661	8-22-36/37/38	17-26	O,Xn	H272-H302-H315-H319-H335	P220-P261-P305 + P351 + P338	3
100% Tacsimate pH 7.0	HR2-755						
1.0 M Sodium sulfate decahydrate	HR2-673						1
50% v/v Ethylene glycol, 25% w/v NDSB-201							
30% w/v Polyethylene glycol 3350, 20% v/v Glycerol							
30% v/v Polyethylene glycol 400, 10% w/v Polyethylene glycol 20,000, 5% v/v Glycerol, 5% w/v NDSB-201							

For additional information, please refer to the individual Material Safety Data Sheets(s).

## (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 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.



## (CONTINUED) - SECTION 16 - OTHER INFORMATION

### 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.

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