

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

Product Name : Crystal Screen Cryo™
Product Number : HR2-122
Product type : Liquid
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 : 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

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

see SECTION 16

Additional information:

Relevant R-phrase(s), S-phrase(s), GHS pictogram(s), Hazard statement(s), and Precautionary statement(s) please see SECTION 16

(CONTINUED) - SECTION 2: Hazards Identification

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

(CONTINUED) - 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

(CONTINUED) - 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		GHS07	H315-H319	P305 + P351 + P338	1
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						
Ammonium phosphate monobasic	7722-76-1						1
Ammonium sulfate	7783-20-2				H412	P273+P501	1
Calcium acetate hydrate	114460-21-8	36/37/38	26	GHS07	H315-H319- H335	P261-P305 + P351 + P338	1
Calcium chloride dihydrate	10035-04-8	36	22-24	GHS07	H319	P305 + P351 + P338	1
Glycerol	56-81-5						1
HEPES sodium	75277-39-3						3
Imidazole	288-32-4	61-22-34	53-26- 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			1
Magnesium acetate tetrahydrate	16674-78-5						3
Magnesium chloride hexahydrate	7791-18-6						1
Magnesium formate dihydrate	557-39-1						3
Polyethylene glycol 400	25322-68-3						1
Polyethylene glycol 1,500	25322-68-3						1
Polyethylene glycol 4,000	25322-68-3						
Polyethylene glycol 8,000	25322-68-3						
Potassium phosphate monobasic	7778-77-0						
Potassium sodium tartrate tetrahydrate	6381-59-5						
Sodium acetate trihydrate	6131-90-4						
Sodium cacodylate trihydrate	6131-99-3	23/25-40- 50/53	20/21-28- 45-60-61	GHS06, GHS08, GHS09	H301 + H331-H351- H410	P261-P273-P281-P301 + P310-P311-P501	3
Sodium citrate tribasic dihydrate	6132-04-3						1

SECTION 16: Other Information

Kit Components							
Substance Name	[CAS]	R-Phrase	S-Phrase	GHS Pictogram	Hazard Statement	Precautionary Statement	WKG
Sodium formate	141-53-7						1
Sodium phosphate monobasic monohydrate	10049-21-5						1
TRIS hydrochloride	1185-53-1						1
Zinc acetate dihydrate	5970-45-6	22-36-50/53	26-60-61	GHS07, GHS09	H302-H319- H410	P273-P305 + P351 + P338- P501	3

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

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

Risk Phrase(s)

- R 11 : Highly Flammable
- R 22 : Harmful if swallowed
- R 23/25 : Toxic by inhalation and if swallowed
- R 34 : Causes burns
- R 36 : Irritating to the eyes
- R 36/37/38 : Irritating to eyes, respiratory system and skin
- R 36/38 : Irritating to eyes and skin
- R 40 : Limited evidence of a carcinogenic effect
- R 50/53 : Very toxic to aquatic organisms, may cause long term effects in the aquatic environment
- R 61 : May cause harm to the unborn child
- R 67 : Vapors may cause drowsiness or dizziness







Safety Phrase(s)

- S 7 : Keep container tightly closed
- S 16 : Keep away from sources of ignition - No smoking
- S 20/21 : When using, do not eat, drink or smoke
- 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 28 : After contact with skin, wash immediately with plenty of soap
- S 36 : Wear suitable protective clothing and seek medical advice
- 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 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

(CONTINUED) - SECTION 16: Other Information

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

GHS Pictogram

GHS02	: 	Flammable Liquids	GHS07	: 	Acute toxicity
GHS05	: 	Eye Irritation	GHS08	: 	Health Hazard
GHS06	: 	Acute toxicity	GHS09	: 	Hazardous to aquatic life

Hazard statement(s)

H225	:	Highly Flammable liquid and vapour.
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H319	:	Causes serious eye irritation.
H331	:	Toxic if inhaled.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H351	:	Suspected of causing cancer.
H360D	:	May damage the unborn child.
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.
P210	:	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
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.
P281	:	Use personal protective equipment as required.
P301 + P310	:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P310	:	Immediately call a POISON CENTER or doctor/physician.
P311	:	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.
P501	:	Dispose of contents/container to a licensed disposal company.

(CONTINUED) - SECTION 16: Other Information

DISCLAIMER

- For R&D 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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