

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

Product Name : Ionic Liquid Screen  
Product Number : HR2-214  
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)

**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-phrases, S-phrases, GHS pictogram(s), Hazard statement(s), and Precautionary statement(s) please see SECTION 16

## 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 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

Kit Components							
Substance Name	[CAS]	R-Phrase	S-Phrase	GHS Pictogram	Hazard Statement	Precautionary Statement	WKG
1,3-Dimethylimidazolium dimethyl phosphate	654058-04-5	22-34	26-36/37/39-45	GHS05, GHS07	H302-H314	P280-P305 + P351 + P338-P310	3
1,3-Dimethylimidazolium methyl sulfate	97345-90-9						3
1-Butyl-2,3-dimethylimidazolium tetrafluoroborate	402846-78-0						3
1-Butyl-3-methylimidazolium chloride	79917-90-1	25-36/37/38-51/53	26-45-61	GHS06, GHS09	H301-H315-H319-H335-H411	P261-P273-P301 + P310-P305 + P351 + P338	3
1-Butyl-3-methylimidazolium dicyanamide	448245-52-1	22-36/37/38	26	GHS07	H302-H315-H319-H335	P261-P305 + P351 + P338	3
1-Butyl-3-methylimidazolium methyl sulfate	401788-98-5	34	26-36-45	G H S 0 5 , GHS07	H314	P280-P305 + P351 + P338-P310	
1-Butyl-3-methylimidazolium tetrafluoroborate	174501-65-6	25-36/38-51/53	26-45-61	GHS06, GHS09	H301-H315-H319-H411	P273-P301 + P310-P305 + P351 + P338	3
1-Butyl-3-methylimidazolium trifluoroacetate	174899-94-6						
1-Butylpyridinium chloride	1124-64-7	36/38	26	GHS07	H315-H319	P305 + P351 + P338	3
1-Ethyl-3-methylimidazolium acetate	143314-17-4	36/38	26		H315-H319-H413	P305 + P351 + P338	3
1-Ethyl-3-methylimidazolium chloride	65039-09-0	36/38	26	GHS07	H315-H319-H413	P305 + P351 + P338	2
1-Ethyl-3-methylimidazolium ethyl sulfate	342573-75-5						1
1-Ethyl-3-methylimidazolium tetrafluoroborate	143314-16-3	22-51/53	61	GHS07	H302		3
1-Ethyl-3-methylimidazolium trifluoromethanesulfonate	145022-44-2						3
1-Hexyl-3-methylimidazolium chloride	171058-17-6						3
1-n-Butyl-3-methylimidazolium n-octylsulfate	445473-58-5	36/37/38	26	GHS07	H315-H319-H335	P261-P305 + P351 + P338	3

## SECTION 16: Other Information

Kit Components							
Substance Name	[CAS]	R-Phrase	S-Phrase	GHS Pictogram	Hazard Statement	Precautionary Statement	WKG
2-Hydroxyethylammonium formate	53226-35-0						
Benzyltriethylammonium chloride	56-37-1	36/37/38	26-36	GHS07	H315-H319-H335	P261-P305 + P351 + P338	1
Cholin acetate	14586-35-7						3
Choline dihydrogen phosphate	83846-92-8						
Ethylammonium nitrate	22113-86-6						
Tetrabutylphosphonium bromide	3115-68-2	21/22-36/37/38	26-37/39	G H S 0 5 , GHS06	H302-H311-H315-H318-H335	P261-P280-P305 + P351 + P338-P312	1
Tetraethylammonium bromide	71-91-0	36/37/38	26-36	GHS07	H315-H319-H335	P261-P305 + P351 + P338	3
Triisobutylmethylphosphonium tosylate	344774-05-6						

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 21/22 : Harmful in contact with skin and if swallowed  
 R 22 : Harmful if swallowed  
 R 25 : Toxic if swallowed  
 R 34 : Causes burns  
 R 36/38 : Irritating to eyes and skin  
 R 36/37/38 : Irritating to eyes, respiratory system and skin  
 R 51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

#### Safety Phrase(s)

- 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 36/37/39 : Wear suitable protective clothing and 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 61 : Avoid release to the environment. Refer to special instructions safety data sheet

#### GHS Pictogram

- GHS05 :  Eye Irritation      GHS06 :  Acute Toxicity  
 GHS07 :  Acute Toxicity      GHS09 :  Hazardous to environment

## (CONTINUED) - SECTION 16 - OTHER INFORMATION

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

#### Hazard statement(s)

H301	:	Toxic if swallowed
H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage
H319	:	Causes serious eye irritation.
H335	:	May cause respiratory irritation.
H411	:	Toxic to aquatic life with long lasting effects
H413	:	May cause long lasting harmful effects to aquatic life

#### Precautionary statement(s)

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.
P312	:	Harmful in contact with skin
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.

#### DISCLAIMER

- For R&D use only. Not for drug, household, or other use.

#### WARRANTY

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