# SAFETY DATA SHEET



### xMAP® Sheath Concentrate PLUS

# **Section 1. Identification**

: xMAP® Sheath Concentrate PLUS **Product identifier** 

**Product code** 

Other means of identification

: Not available.

**Product type** : Liquid.

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

**Identified uses** : For Professional use only. Use as per Product labeling.

Supplier's details : Luminex Corporation

12212 Technology Blvd Austin, Texas 78727 Tel: 1-512-381-4397

Toll free: 1-877-785-2323 (US and Canada)

Fax: 1-512-219-5114 http://www.luminexcorp.com

e-mail address of person responsible for this SDS

: Support@Luminexcorp.com

: 1-512-381-4397

**Emergency telephone** number (with hours of

24/7

operation)

## Section 2. Hazards identification

Classification of the substance or mixture : Not classified.

GHS label elements, including precautionary statements

: No signal word. Signal word

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

**Prevention** : Not applicable. Response : Not applicable. : Not applicable. Storage **Disposal** : Not applicable.

Other hazards which do not : None known.

result in classification



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# Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of : Not available.

identification

Ingredient name	%	CAS number
	≥3 - ≤5 ≥0.3 - <1	78491-02-8 26628-22-8

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Chemical formula : Not applicable.

## Section 4. First aid measures

### **Description of necessary first aid measures**

Eye contact : Not applicable.
Inhalation : Not applicable.
Skin contact : Not applicable.
Ingestion : Not applicable.

#### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : None identified.

Specific treatments : No specific treatment.

**Protection of first-aiders** : No special measures required.

See toxicological information (Section 11)

## Section 5. Firefighting measures

#### Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.



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## Section 5. Firefighting measures

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

: None required.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

: No special requirements. **Environmental precautions** 

#### Methods and material for containment and cleaning up

Spill

: Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

# Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** 

Advice on general occupational hygiene : Put on appropriate personal protective equipment (see Section 8).

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene

measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store at 15°C to 30°C.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Sodium azide	Workplace Safety and Health Act (Singapore, 2/2006).  PEL (short term): 0.11 ppm 15 minutes. Form: Vapour PEL (short term): 0.29 mg/m³, (hydrazoic acid) 15 minutes.

## Section 8. Exposure controls/personal protection

Appropriate engineering

controls

No special ventilation requirements.

**Environmental exposure** 

controls

: No special measures required.

#### **Individual protection measures**

**Hygiene measures** : Follow good industrial hygiene practice. **Eye/face protection** : Not required under normal conditions of use.

**Skin protection** 

**Hand protection** : Not required under normal conditions of use. **Body protection** : Not required under normal conditions of use. Other skin protection : Not required under normal conditions of use. : Not required under normal conditions of use. **Respiratory protection** 

# Section 9. Physical and chemical properties

#### **Appearance**

**Physical state** : Liquid. [Clear.] Colour : Colourless. **Odour** : Odourless. **Odour threshold** Not available.

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**Melting point** : Not available. : Not available. **Boiling point** Flash point : Not applicable. **Evaporation rate** : Not available. Flammability (solid, gas) : Not applicable. Lower and upper explosive

(flammable) limits

: Not applicable.

: Not available. Vapour pressure Vapour density Not available. : Not available. **Relative density** : Not available. Solubility Solubility in water : Not available. Partition coefficient: n-Not available.

octanol/water

**Auto-ignition temperature** : Not applicable. **Decomposition temperature** : Not available. **Viscosity** : Not available. Flow time (ISO 2431) : Not available.

## Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials**: Reactive or incompatible with the following materials: oxidising materials.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

SADT : Not available.

## Section 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
1-[1,3-bis(Hydroxymethyl)-2,5-dioxoimidazolidin- 4-yl]-1,3-bis(hydroxymethyl)urea	LD50 Oral	Rat	2600 mg/kg	-
Sodium azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -

## **Irritation/Corrosion**

There is no data available.

#### **Sensitisation**

There is no data available.

### **Mutagenicity**

There is no data available.

### **Carcinogenicity**

There is no data available.

#### Reproductive toxicity

There is no data available.

### **Teratogenicity**

There is no data available.

## Specific target organ toxicity (single exposure)

There is no data available.

## Specific target organ toxicity (repeated exposure)

There is no data available.

#### **Aspiration hazard**

There is no data available.

Information on likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects



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# Section 11. Toxicological information

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **Short term exposure**

Potential immediate :

effects

: No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

**Long term exposure** 

**Potential immediate** 

effects

: No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

## Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	6750 mg/kg
Dermal	5000 mg/kg

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
1-[1,3-bis(Hydroxymethyl) -2,5-dioxoimidazolidin-4-yl]-1,3-bis (hydroxymethyl)urea	Acute EC50 58 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 >150 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Sodium azide	Acute EC50 0.348 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.4 mg/L Fresh water	Crustaceans - Simocephalus serrulatus - Larvae	48 hours
	Acute EC50 4.2 mg/L Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 0.68 mg/L Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/L Marine water	Algae - Macrocystis pyrifera	96 hours

# Section 12. Ecological information

### Persistence/degradability

There is no data available.

#### Bioaccumulative potential

There is no data available.

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimised wherever possible. No specific disposal consideration.

# **Section 14. Transport information**

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

# Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.



## Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
Not classified.	

#### **History**

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Version :

Prepared by : KMK Regulatory Services Inc.

**Key to abbreviations**: ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the

Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

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