# SAFETY DATA SHEET



#### xMAP® Sheath Concentrate PLUS

### **Section 1. Identification**

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

**Product code** 

Other means of

Not available.

identification

: Liquid.

**Product type** 

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)

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**Emergency telephone** number (with hours of

operation) e-mail address of person

: 1-512-381-4397

responsible for this SDS 24/7

## Section 2. Hazards identification

: 6.4 - EYE IRRITATION - Category A (Irritant) **HSNO Classification** 

6.5 - SENSITIZATION - Category B (Skin)

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

#### **GHS label elements**

Signal word : Warning

**Hazard statements** : Causes serious eye irritation.

May cause an allergic skin reaction.

**Precautionary statements** 

**Prevention** : Wear protective gloves. Wear eye or face protection. Avoid breathing vapour.

Wash thoroughly after handling. Contaminated work clothing should not be allowed

out of the workplace.

: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Response

Get medical advice/attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

: Not applicable. **Storage** 



## Section 2. Hazards identification

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Symbol** 



Other hazards which do not : None known.

result in classification

# Section 3. Composition/information on ingredients

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

Ingredient name	% (w/w)	CAS number
Sodium chloride 1-[1,3-bis(Hydroxymethyl)-2,5-dioxoimidazolidin-4-yl]-1,3-bis	10 - 30 1 - 5	7647-14-5 78491-02-8
(hydroxymethyl)urea Disodium phosphate heptahydrate	1 - 5	7782-85-6

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.

### Section 4. First aid measures

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

: Not applicable. Inhalation Ingestion : Not applicable.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower **Eye contact** 

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20

minutes. Get medical attention.

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

### Potential acute health effects

Inhalation : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

: May cause an allergic skin reaction. Skin contact

**Eye contact** : Causes serious eye irritation.

#### Over-exposure signs/symptoms

Inhalation : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Skin : No known significant effects or critical hazards.



### Section 4. First aid measures

Adverse symptoms may include the following: **Eyes** 

> pain or irritation watering redness

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

**Specific treatments** : No specific treatment. Notes to physician : None identified.

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

See toxicological information (Section 11)

# Section 5. Firefighting measures

#### **Extinguishing media**

**Suitable** : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

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

Hazchem code

Not available.

Special precautions for firefighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without

suitable training.

**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

mode.

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** : No special requirements.

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

: Put on appropriate personal protective equipment (see Section 8).

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

including any incompatibilities

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# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

None.

**Appropriate engineering** 

controls

: No special ventilation requirements.

**Environmental exposure** 

controls

: No special measures required.

#### **Individual protection measures**

**Hygiene measures** : Follow good industrial hygiene practice. **Respiratory protection** : Not required under normal conditions of use. **Hand protection** : Not required under normal conditions of use. **Eye protection** : Not required under normal conditions of use. **Skin protection** : Not required under normal conditions of use.

# Section 9. Physical and chemical properties

#### **Appearance**

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

pН 6.6

**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 : Not applicable.

(flammable) limits

: Not available. Vapour pressure **Vapour density** : Not available. : Not available. Relative density **Solubility** : Not available. : Not available. Solubility in water 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

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 : No specific data.

Hazardous decomposition

products

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

should not be produced.

# Section 11. Toxicological information

### Information on likely routes of exposure

InhalationIngestionNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contactEye contactMay cause an allergic skin reaction.Eye contactCauses serious eye irritation.

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

Inhalation: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

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

#### **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	-
Disodium phosphate heptahydrate	LD50 Oral	Rat	12930 mg/kg	-

#### **Irritation/Corrosion**

There is no data available.

#### **Sensitisation**

There is no data available.

#### Potential chronic health effects

General : No known significant effects or critical hazards.
 Inhalation : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

Skin contact : Once sensitised, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Eye contact
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

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# **Section 11. Toxicological information**

**Developmental effects** 

No known significant effects or critical hazards.No known significant effects or critical hazards.

**Fertility effects** 

### **Chronic toxicity**

There is no data available.

#### Carcinogenicity

There is no data available.

### **Mutagenicity**

There is no data available.

#### **Teratogenicity**

There is no data available.

### **Reproductive toxicity**

There is no data available.

### **Specific target organ toxicity**

There is no data available.

#### **Aspiration hazard**

There is no data available.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Route	ATE value
Oral	18939.39 mg/kg

# Section 12. Ecological information

### **Ecotoxicity**

: No known significant effects or critical hazards.

#### **Aquatic and terrestrial toxicity**

Product/ingredient name	Result	Species	Exposure
Sodium chloride	Acute EC50 2430000 µg/L Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 519.6 mg/L Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 4.96 μg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/L Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/L Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/L Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
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

### Persistence/degradability



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# **Section 12. Ecological information**

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**

	New Zealand	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.

Transport in bulk according : Not available.

to IMO instruments

# Section 15. Regulatory information

**HSNO Approval Number** : Not available. **HSNO Group Standard** : Not available.

**HSNO Classification** : 6.4 - EYE IRRITATION - Category A (Irritant) 6.5 - SENSITIZATION - Category B (Skin)

### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.



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# Section 15. Regulatory information

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : All components are listed or exempted.
Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.Viet Nam : All components are listed or exempted.

### Section 16. Other information

**History** 

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revision

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Prepared by : KMK Regulatory Services Inc.

**Key to abbreviations** : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road 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)

RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

SGG = Segregation Group UN = United Nations

References : Not available.



## **Section 16. Other information**

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.