Date : 15/01/2021

Version : 4

SAFETY DATA SHEET



xMAP® Classification Calibrator Microspheres (CAL1), xMAP® Reporter Calibrator Microspheres (CAL2), MagPlex Classification Calibrator Microspheres (MCAL1), FLEXMAP Classification Calibrator Microspheres (F3DCAL1), FLEXMAP e Classification Calibrator Microspheres (F3DCAL1), FLEXMAP Reporter Calibrator Microspheres (F3DCAL2), FLEXMAP EDR Reporter Calibrator Microspheres (F3DCAL3), xMAP® INTELLIFLEX Calibrator, Violet Laser Alignment Microsphere Reagent

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : xMAP® Classification Calibrator Microspheres (CAL1), xMAP® Reporter Calibrator

Microspheres (CAL2), MagPlex Classification Calibrator Microspheres (MCAL1), FLEXMAP Classification Calibrator Microspheres (F3DCAL1), FLEXMAP e

Classification Calibrator Microspheres (F3DeCAL1), FLEXMAP Reporter Calibrator Microspheres (F3DeCAL2), FLEXMAP EDR Reporter Calibrator Microspheres (F3DCAL2), FLEXMAP EDR Reporter Calibrator Microspheres (F3DCAL3), xMAP® INTELLIFLEX Calibration Kit, xMAP® INTELLIFLEX Calibrator,

Violet Laser Alignment Microsphere Reagent

Product code :

Product description : Not available.

Product type : Liquid.

Component name : Not available.

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

Identified uses

For Professional use only. Use as per Product Insert.

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number National advisory body/Poison Centre



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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

Telephone number : Not applicable due to the nature of the product.

Supplier

Emergency telephone : 1-512-381-4397 24/7

number (with hours of

operation)

SECTION 2: Hazards identification

A safety data sheet is not required for this product under Article 31 of REACH.

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

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

elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Special packaging requirements

Containers to be fitted : Not applicable. with child-resistant

fastenings

Tactile warning of danger: Not applicable.

2.3 Other hazards



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SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Pagulation (EC) No.

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

to Regulation (EC) No. 1907/2006, Annex XIII

Other hazards which do : None known.

not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Not applicable.

Inhalation : Not applicable.

Skin contact : Not applicable.

Ingestion : Not applicable.

Protection of first-aiders : No special measures required.

4.2 Most important symptoms and effects, both acute and delayed

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.
 No known significant effects or critical hazards.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : None identified.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

: Use dry chemical, CO₂, water spray (fog) or foam.

media

Unsuitable extinguishing : None known.

media

5.2 Special hazards arising from the substance or mixture

Hazards from the : No specific fire or explosion hazard. substance or mixture

xMAP® Classification Calibrator Microspheres (CAL1), xMAP® Reporter Calibrator Microspheres (CAL2), MagPlex Classification Calibrator Microspheres (MCAL1), FLEXMAP Classification Calibrator Microspheres (F3DCAL1), FLEXMAP e Classification Calibrator Microspheres (F3DeCAL1), FLEXMAP Reporter Calibrator Microspheres (F3DCAL2), FLEXMAP EDR Reporter Calibrator Microspheres (F3DCAL3), xMAP® INTELLIFLEX Calibration Kit, xMAP® INTELLIFLEX Calibrator, Violet Laser Alignment Microsphere Reagent

SECTION 5: Firefighting measures

Hazardous combustion products

: No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters

: No special measures are 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 mode.

SECTION 6: Accidental release measures

6.1 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".

6.2 Environmental precautions

No special requirements.

6.3 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.

6.4 Reference to other

sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

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

Advice on general occupational hygiene : 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.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store at 2°C to 8°C.

7.3 Specific end use(s)

Recommendations : Not available.



4/12 **Document No. :**

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SECTION 7: Handling and storage

Industrial sector specific

: Not available.

solutions

SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: No special ventilation requirements.

Individual protection measures

Hygiene measures

: Follow good industrial hygiene practice.

Eye/face protection

: Not required under normal conditions of use.

Skin protection

Hand protection Body protection Not required under normal conditions of use.Not required under normal conditions of use.

Other skin protection Respiratory protection

Not required under normal conditions of use.Not required under normal conditions of use.

Environmental exposure

: No special measures required.

controls

xMAP® Classification Calibrator Microspheres (CAL1), xMAP® Reporter Calibrator Microspheres (CAL2), MagPlex Classification Calibrator Microspheres (MCAL1), FLEXMAP Classification Calibrator Microspheres (F3DCAL1), FLEXMAP e Classification Calibrator Microspheres (F3DeCAL1), FLEXMAP Reporter Calibrator Microspheres (F3DCAL2), FLEXMAP EDR Reporter Calibrator Microspheres (F3DCAL3), xMAP® INTELLIFLEX Calibration Kit, xMAP® INTELLIFLEX Calibrator, Violet Laser Alignment Microsphere Reagent

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Clear liquid with coloured precipitate and/or coloured suspension.]

Colour : Not available.

Odour None

: Not available. **Odour threshold**

Hq 7.4

: Not available. Melting point/freezing point

Initial boiling point and : 100°C

boiling range

Flash point : Not applicable. **Evaporation rate** : Not available.

Upper/lower flammability or

Flammability (solid, gas)

explosive limits

: Not applicable. : Not applicable.

: Not available. Vapour pressure Vapour density : Not available.

Relative density

: Easily soluble in the following materials: cold water and hot water. Solubility(ies)

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : Not available. **Decomposition temperature** : Not available. : Not available. **Viscosity Explosive properties** : Not available. **Oxidising properties** : Not available.

9.2 Other information

Solubility in water : Not available.

SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : No specific data.

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

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6/12 **Document No. :**

xMAP® Classification Calibrator Microspheres (CAL1), xMAP® Reporter Calibrator Microspheres (CAL2), MagPlex Classification Calibrator Microspheres (MCAL1), FLEXMAP Classification Calibrator Microspheres (F3DCAL1), FLEXMAP e Classification Calibrator Microspheres (F3DCAL1), FLEXMAP Reporter Calibrator Microspheres (F3DCAL2), FLEXMAP EDR Reporter Calibrator Microspheres (F3DCAL3), xMAP® INTELLIFLEX Calibrator, Violet Laser Alignment Microsphere Reagent

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

There is no data available.

Acute toxicity estimates

There is no data available.

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

: Routes of entry anticipated: Oral, Dermal, Inhalation.

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.
 No known significant effects or critical hazards.



Document No. : 7/12

xMAP® Classification Calibrator Microspheres (CAL1), xMAP® Reporter Calibrator Microspheres (CAL2), MagPlex Classification Calibrator Microspheres (MCAL1), FLEXMAP Classification Calibrator Microspheres (F3DCAL1), FLEXMAP e Classification Calibrator Microspheres (F3DCAL1), FLEXMAP Reporter Calibrator Microspheres (F3DCAL2), FLEXMAP EDR Reporter Calibrator Microspheres (F3DCAL3), xMAP® INTELLIFLEX Calibration Kit, xMAP® INTELLIFLEX Calibrator, Violet Laser Alignment Microsphere Reagent

SECTION 11: Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

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

effects

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

Long term exposure

Potential immediate : No known significant effects or critical hazards.

effects

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.
 Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

There is no data available.

12.2 Persistence and degradability

There is no data available.

12.3 Bioaccumulative potential

There is no data available.

12.4 Mobility in soil

Soil/water partition : Not available.

coefficient (Koc)

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.



Document No. : 8/12

xMAP® Classification Calibrator Microspheres (CAL1), xMAP® Reporter Calibrator Microspheres (CAL2), MagPlex Classification Calibrator Microspheres (MCAL1), FLEXMAP Classification Calibrator Microspheres (F3DCAL1), FLEXMAP e Classification Calibrator Microspheres (F3DeCAL1), FLEXMAP Reporter Calibrator Microspheres (F3DCAL2), FLEXMAP EDR Reporter Calibrator Microspheres (F3DCAL3), xMAP® INTELLIFLEX Calibration Kit, xMAP® INTELLIFLEX Calibrator, Violet Laser Alignment Microsphere Reagent

SECTION 12: Ecological information

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

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : 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.

14.7 Transport in bulk according to IMO instruments

: Not available.

xMAP® Classification Calibrator Microspheres (CAL1), xMAP® Reporter Calibrator Microspheres (CAL2), MagPlex Classification Calibrator Microspheres (MCAL1), FLEXMAP Classification Calibrator Microspheres (F3DCAL1), FLEXMAP e Classification Calibrator Microspheres (F3DCAL1), FLEXMAP Reporter Calibrator Microspheres (F3DCAL2), FLEXMAP EDR Reporter Calibrator Microspheres (F3DCAL3), xMAP® INTELLIFLEX Calibrator, Violet Laser Alignment Microsphere Reagent

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture,

placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

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.



xMAP® Classification Calibrator Microspheres (CAL1), xMAP® Reporter Calibrator Microspheres (CAL2), MagPlex Classification Calibrator Microspheres (MCAL1), FLEXMAP Classification Calibrator Microspheres (F3DCAL1), FLEXMAP e Classification Calibrator Microspheres (F3DCAL1), FLEXMAP Reporter Calibrator Microspheres (F3DCAL2), FLEXMAP EDR Reporter Calibrator Microspheres (F3DCAL3), xMAP® INTELLIFLEX Calibrator, Violet Laser Alignment Microsphere Reagent

SECTION 15: Regulatory information

Inventory list

Australia : Not determined.

Canada : At least one component is not listed in DSL but all such components are listed in

NDSL.

China : Not determined.

Europe : Not determined.

Japan : Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : Not determined.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

SECTION 16: Other information

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Not classified.		

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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Document No. : 11/12

xMAP® Classification Calibrator Microspheres (CAL1), xMAP® Reporter Calibrator Microspheres (CAL2), MagPlex Classification Calibrator Microspheres (MCAL1), FLEXMAP Classification Calibrator Microspheres (F3DCAL1), FLEXMAP e Classification Calibrator Microspheres (F3DCAL1), FLEXMAP Reporter Calibrator Microspheres (F3DCAL2), FLEXMAP EDR Reporter Calibrator Microspheres (F3DCAL3), xMAP® INTELLIFLEX Calibrator, Violet Laser Alignment Microsphere Reagent

SECTION 16: Other information

Version : 4

Prepared by : KMK Regulatory Services Inc.

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.