

Material Safety Data Sheet



Prepared: 12/04
Updated: 12/04

Document Number 89-40000-00-003, Rev. B, Effective 1/06

Product Name: Luminex SeroMAP™ Microspheres and xMAP® Multi-Analyte COOH Microspheres
Product Number: L100-S001 thru L100-S100 (regions 1-100) and L100-C101 thru L100-C200 (regions 1-100)

I. Product and Company Description

Luminex Corporation
12212 Technology Blvd.
Austin, Texas 78727
www.luminexcorp.com

For Product Information/Emergency Phone Number:
1-877-785-2323 (US and Canada)
+1-512-381-4397 (International)

Chemical Name or Synonym:
N/A

II. Data on Components

These preparations contain the following hazardous ingredients.

| Component | CAS # | EC # | %Composition |
|--|---------|-----------|--------------|
| Preservative T+,N.;R26/27/28, R33,R50/53 | 54-64-8 | 200-210-4 | <0.1 |

III. Hazards Identification

A. Emergency Overview:

Information Pertaining To Particular Dangers For Man And Environment:
May cause irritation.

Physical Appearance:
Clear liquid with colored precipitate and/or colored suspension.

B. Potential Health Effects:

Acute Eye:
May cause irritation.

Acute Skin:
May cause irritation.

Acute Inhalation:
May be harmful and irritating if inhaled.

Acute ingestion:
May be harmful if swallowed.

Medical Conditions Generally Aggravated by Exposure:
ND

IV. First Aid Measures

First Aid Measures for Accidental:

Eye Exposure:
Immediately flush eyes with copious amounts of water for at least 15 minutes. If irritation develops, SEEK MEDICAL ATTENTION.

Skin Exposure:
Wash affected areas with soap and water. If irritation develops, SEEK MEDICAL ATTENTION.

Inhalation:
Move to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. SEEK MEDICAL ATTENTION.

Ingestion:
If swallowed, rinse mouth out with water. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. SEEK MEDICAL ATTENTION.

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V. Fire Fighting Measures

Fire Hazard Data:

Autoignition: Product is not self-igniting

Flash Point: N/A

Flammability Limits (vol/vol%):

Lower: N/A
Upper: N/A

Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures:

Firefighters should wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards:

Emits toxic fumes under fire conditions.

VI. Accidental Release Measures

Cleanup and Disposal of Spill:

Using proper personal protective equipment (Section VIII), absorb using inert material. Ventilate area and wash spill site after material has been contained. Discard any product, residue, disposable container or liner in full compliance with national regulations.

VII. Handling and Storage

Handling/Storage:

Store in sealed container in cool (2-8°C), dry location and away from oxidizers.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

| Component | ACGIH | NIOSH | OSHA-PELs |
|--------------|-------|-------|-----------|
| Preservative | None | None | None |

Engineering Controls:

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS. General room ventilation is satisfactory under anticipated use conditions.

Respiratory Protection:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or EN approved respirator when necessary.

Eye / Face Protection:

Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

Skin Protection:

Wear chemical resistant gloves (such as latex or neoprene) and protective clothing to minimize skin contact.

IX. Physical and Chemical Properties

Physical Appearance: Clear liquid with colored precipitate and/or colored suspension.

Odor: None

pH: 4.5-7.0

Specific Gravity: ~1

Water Solubility: Fully Miscible

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Melting Point: Not Available
Freezing Point Not Available
Boiling Point: ~212°F (100°C)
Vapor Pressure: Not Available
Vapor Density: Not Available
Percent Volatiles by Volume: Not Available
Viscosity: Not Available
Molecular Weight: Not applicable to mixtures

To our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

X. Stability and Reactivity

Chemical Stability:
Stable

Conditions to Avoid:
None

Materials / Chemicals to Be Avoided:
Strong oxidizers.

Hazardous Decomposition Products:
Emits toxic fumes of carbon monoxide, carbon dioxide, and nitrogen oxides.

Hazardous Polymerization:
Will not occur.

XI. Toxicological Information

Carcinogenicity:
NTP: NO
IARC: NO
OSHA: NO

XII. Ecological Information

Ecotoxicological Information:
ND

XIII. Disposal Considerations

Waste Disposal Method:
Discard any product, residue, disposable container or liner in full compliance with national regulations.

Container Handling and Disposal:
Dispose of container and unused contents in accordance with national regulations.

XIV. Transportation Information

Shipping Name:

| ADR/RID/IMO/ICAO/US DOT | Proper Shipping Name | Not Regulated |
|-------------------------|----------------------|---------------|
| | Hazard Class | Not Regulated |
| | ID Number | Not Regulated |
| | Packaging Group | Not Regulated |
| | Label Statement | Not Regulated |

XV. Regulatory Information

U.S. Federal Regulations:

SARA Title III Hazard Classes:
Fire Hazard: No
Reactive Hazard: No
Release of Pressure: No
Acute Health Hazard: No

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Chronic Health Hazard: No

TSCA

All components of this product are on the TSCA inventory or are not required to be listed.

PEL – Permissible Exposure Limit
TWA – Time Weighted Average
STEL – Short Term Exposure Limit
NTP – National Toxicology Program
IARC – International Agency for Research on Cancer

Other Regulations:

U.S. State

None

Canada

CAS# 54-64-8 is listed on Canada's DSL and Ingredient Disclosure Lists

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

European/International Regulations

The hazardous substance contained in these products is below the limits specified by the EU Directives, therefore these preparations are not subject to the identification regulations.

Observe general safety regulations when handling chemicals

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, LUMINEX CORPORATION MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE OF THIS DATA.

XVI. Other Information

National Paint & Coating Hazardous Materials Identification System – HMIS(R):

| | |
|----------------|---|
| Health Hazard: | 1 |
| Flammability: | 0 |
| Reactivity: | 0 |

Key Legend Information:

N/A – Not Applicable
ND – Not Determined
ACGIH – American Conference of Governmental Industrial Hygienists
OSHA – Occupational Safety and Health Administration
TLV – Threshold Limit Value