

MATERIAL SAFETY DATA SHEET

Fluorescence Beads

VERSION NO.: 1.0
MSDS DATE: 18 JAN 2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Fluorescence Beads
PRODUCT CODES: Components 1 of 1 , CD-FLB-0.5 or CD-FLB-0.25

MANUFACTURER: DeNovix Inc.
ADDRESS: 3411 Silverside Road
Hanby Building 101
Wilmington, DE 19810

PHONE: 1-302-442-6911

PRODUCT USE: For research use only
PREPARED BY: DeNovix Inc.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

COMPONENT Solid polymer microspheres, >1.0 um and < 30.0 um
CLASSIFICATION Not a hazardous substance or mixture.
CAS NO. 009003536
Concentration <1.0 %

COMPONENT Polyethylene glycol sorbitan monooleate
Synonyms: Polyoxyethylenesorbitan monooleate
Polysorbate 80
CLASSIFICATION Not a hazardous substance or mixture.
CAS NO. 9005-65-6
Concentration <2.0%

COMPONENT Water
CLASSIFICATION Not a hazardous substance or mixture.
CAS NO. 007732185
Concentration > 98.0%

SECTION 3: HAZARDS IDENTIFICATION

Hazard Overview

Low hazard for usual industrial or commercial handling.

GHS Classification

Non-Hazardous

SIGNAL WORD Non-Hazard

HAZARD STATEMENT AND PRECAUTIONARY STATEMENTS

H000 Low hazard for normal industrial use
P301A IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305B IF IN EYES: Separate eyelids with finger tips.
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P351 Rinse cautiously with water for several minutes.
P361 Remove/Take off immediately all contaminated clothing.

NFPA Rating

Hazard Ratings:

Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

| Health | Flammability | Reactivity |
|--------|--------------|------------|
| 0 | 0 | 0 |

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SECTION 4: FIRST AID MEASURES

Flush eyes with flowing water for at least 15 minutes.
If breathing is difficult, contact emergency personnel.
Remove contaminated clothing.
Remove to fresh air.
Separate eyelids with finger tips.
Wash skin with deluge of water for at least 15 minutes.

SECTION 5: FIRE-FIGHTING MEASURES

Flash point, deg F.: No data available
Method: No data available
UEL: No data available
LEL: No data available
Autoignition temperature, deg. F.: No data available
Flammability Classification: No data available
Flame Propagation Rate: No data available
Hazardous Combustion Products: No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

No special measures are indicated.

SECTION 7: HANDLING AND STORAGE

Store at 4°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

No special protection is indicated.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product. Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

FORMULA: Mixture
FORMULA WEIGHT: 0
ODOR: No information available
pH: No information available
BOILING POINT: 100 C
FREEZING POINT: 0 C
VAPOR PRESSURE: No information available
VAPOR DENSITY: No information available
SPECIFIC GRAVITY: No information available
EVAPORATION RATE: No information available
SOLUBILITY IN WATER: Dilutable
APPEARANCE: Colored opaque liquid

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SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable
CONDITIONS TO AVOID: No data available
INCOMPATIBILITY WITH OTHER MATERIALS: No data available
HAZARDOUS DECOMPOSITION PRODUCTS: No data available
HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE DATA: No data available
SUBCHRONIC DATA: No data available

SECTION 12: ECOLOGICAL INFORMATION

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

| CAS# | Waste Code | Regulated Name |
|------------|------------|----------------|
| 0007732185 | not listed | not listed |
| 0009003536 | not listed | not listed |

SECTION 14: TRANSPORT INFORMATION

PROPER SHIPPING NAME: NOT REGULATED
CHEMICAL NAME: UN
CLASS: PG

SECTION 15: REGULATORY INFORMATION

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

| CAS# | Column A | Column B |
|------------|----------|----------|
| 0007732185 | no | no |
| 0009003536 | no | no |

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

| CAS# | |
|------------|------------|
| 0007732185 | not listed |
| 0009003536 | not listed |

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

| CAS# | Regulated Name | de minimis conc. % | Rep. Thres. |
|------------|----------------|--------------------|-------------|
| 0007732185 | not listed | not listed | not listed |
| 0009003536 | not listed | not listed | not listed |

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

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| CAS# | Regulated Name | TPQ (pounds) | EHS-RQ(pounds) |
|------------|----------------|--------------|----------------|
| 0007732185 | not listed | not listed | not listed |
| 0009003536 | not listed | not listed | not listed |

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

| CAS# | Regulated Name | RQ(pounds) |
|------------|----------------|------------|
| 0007732185 | not listed | not listed |
| 0009003536 | not listed | not listed |

SECTION 16: OTHER INFORMATION

DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. DeNovix Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.