

MATERIAL SAFETY DATA SHEET

Brightfield Beads

VERSION NO.: 1.0
MSDS DATE: 18 JAN 2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Brightfield Beads
PRODUCT CODES: Components 1 of 1 , CD-BRB-0.5 or CD-BRB-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 Water
CLASSIFICATION Not a hazardous substance or mixture.
CAS NO. 007732185
Concentration > 99.0%

SECTION 3: HAZARDS IDENTIFICATION

HAZARD OVERVIEW

Low hazard for usual industrial or commercial handling.

GHS CLASSIFICATION Non- Hazardous

SIGNAL WORD Non-Hazard

HAZARD AND PRECAUTIONARY STATEMENTS

H000 Low hazard for normal industrial use.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305B IF IN EYES: Separate eyelids with fingertips.
P313 Get medical advice/attention
P351 Rinse cautiously with water for several minutes.

HMIS CLASSIFICATION:

HEALTH HAZARD 0
FLAMMABILITY 0
PHYSICAL HAZARDS 0

NFPA RATING:

HEALTH HAZARDS 0
FIRE 0
REACTIVITY HAZARDS 0

SECTION 4: FIRST AID MEASURES

GENERAL ADVICE:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Remove affected clothing and launder before reuse.

EYE CONTACT:

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

SKIN CONTACT:

Wash off with soap and plenty of water. Consult a physician.

INGESTION:

Contact physician immediately.

INHALATION:

Remove to fresh air if effects occur. Consult medical personnel.

SYSTEMIC:

Human effects not established. No specific antidote. Treatment based on sound judgment of physician and the individual reactions of the patient.

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SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Not applicable.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Suspended material is not flammable.

ADVICE FOR FIREFIGHTERS:

Not applicable

FURTHER INFORMATION:

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Any information given below is considered to be in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition source from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel. Wear vinyl gloves, soak up spill in paper toweling, and rinse area with water. Put all generated waste into an approved container and dispose of as waste. Observe all applicable federal, state, and local disposal laws.

ENVIRONMENTAL PRECAUTIONS

No special measures are indicated.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

No special measures are indicated. For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

RESPIRATORY PROTECTION:

None normally needed. In cases where there is a likelihood of inhalation exposure to dried particles, wear a NIOSH-approved dust respirator.

CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES VENTILATION:

Good room ventilation is adequate for most operations.

Storage: Store at 4°. Keep refrigerated. Do not freeze. Keep container closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

RESPIRATORY PROTECTION

None normally needed. In cases where there is a likelihood of inhalation exposure to dried particles, wear a NIOSH-approved dust respirator.

HYGIENE MEASURES

Wash with soap and water when leaving work area and before eating, smoking, and using restroom facilities.

EXPOSURE CONTROLS: None Indicated

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. 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 internal 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:	No data
FORMULA WEIGHT:	No data
BOILING POINT:	100°C / 212°F
MELTING POINT:	No data
Density (particles):	~1.05 g/cc - 1.19 g/cc
Solubility:	dispersible in water

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Vapor Pressure: No data
Vapor Density: No data
Specific Gravity: No data
ph: No data
Appearance: White or colorless liquid suspension; faint or non-detectable odor

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No data available
CHEMICAL STABILITY: Stable under recommended storage conditions Possibility of hazardous reactions: No data available
CONDITIONS TO AVOID: Product may irreversibly aggregate if frozen.
INCOMPATIBLE MATERIALS: No dangerous reaction known under conditions of normal use.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Information on toxicological effects: To the best of our knowledge, the chemical, physical, and toxic properties of this product have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

No data

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS: 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 of in compliance with all Federal, State, and Local Regulations.

CAS #	Waste Code	Regulated Name
007732185	not listed	not listed
009003536	not listed	not listed
009003707	not listed	not listed

SECTION 14: TRANSPORT INFORMATION

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

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 identifies those which are known to the State of California to cause reproductive toxicity.

CAS #	Column A	Column B
007732185	no	no
009003536	no	no
009003707	no	no

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). This list is also referred to as the Toxic Release Inventory (TRI) List.

CAS #	Regulated Name	de minimis conc %	Rep. Thres.
007732185	not listed	not listed	not listed
009003536	not listed	not listed	not listed
009003707	not listed	not listed	not listed

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SARA Extremely Hazardous Substances and TPQs: This list identifies 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.

CAS #	Regulated Name	TPQ (pounds)	EHS-RQ (pounds)
007732185	not listed	not listed	not listed
009003536	not listed	not listed	not listed
009003707	not listed	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.