

STORAGE CONDITIONS

MEDLINEUNITE® Bioactive Bone Graft should be stored in a secure, dry environment at ambient temperature. Do not expose to excessive heat for extended periods of time. Optimal storage conditions 15-30°C (59-86°F).

SHELF LIFE AND DISPOSAL

The expiration date is printed on the label. DO NOT use MEDLINEUNITE® Bioactive Bone Graft after the expiration date. The contents of each pouch are sterile unless opened or damaged. Discard unused portion immediately after use.

EXPLANATION OF SYMBOLS



Do not use if package is damaged

STERILE R

Sterilized using irradiation



Single Use Only



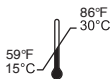
Caution. Consult the Instructions for Use



Expiration Date

Rx ONLY

Prescription Only



Temperature Limit

This product is to be handled or implanted by trained qualified persons having read these Instructions for Use.

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1-800-MEDLINE RA18BIU



UNITE
ORTHOBIOLOGICS

MSBG0375	Contents: (3.75g)
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MSBG0750	Contents: (7.5g)
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MSBG1500	Contents: (15g)
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INSTRUCTIONS FOR USE

Caution: Federal Law (U.S.) restricts this device to sale by or on the order of a physician (or properly licensed practitioner)

**IMPORTANT PRODUCT
INFORMATION**
Please read before use

GENERAL INFORMATION

Device Generic Name: Bioactive Bone Graft

Device Trade Name:

MEDLINEUNITE® Bioactive Bone Graft

MATERIALS AND DEVICE DESCRIPTION

MEDLINEUNITE® Bioactive Bone Graft is a synthetic bone void filler device comprised of biphasic calcium phosphate (CaP) & bioactive glass (45S5) granules suspended in a resorbable alkylene oxide polymer (AOP) carrier. The device is considered bioactive based on in vitro studies that show apatite layer formation on the implant surface following immersion in simulated body fluid. These results have not been correlated to clinical performance.

INDICATIONS FOR USE

MEDLINEUNITE® Bioactive Bone Graft is a bone void filler device intended for use in bony voids or gaps that are not intrinsic to the stability of the bony structure. These defects may be surgically created osseous defects or osseous defects created from traumatic injury to the bone. **MEDLINEUNITE®** Bioactive Bone Graft is indicated to be packed gently into bony voids or gaps of the skeletal system (i.e., extremities, pelvis and posterolateral spine fusion procedures). **MEDLINEUNITE®** Bioactive Bone Graft can also be used with autograft as a bone graft extender in posterolateral spine. The device provides a bone void filler that is resorbed and replaced with host bone during the healing process.

CONTRAINDICATIONS

MEDLINEUNITE® Bioactive Bone Graft is not designed or sold for any use except as indicated.

Do not use **MEDLINEUNITE®** Bioactive Bone Graft in the presence of any contraindication.

MEDLINEUNITE® Bioactive Bone Graft is contraindicated where the device is intended as structural support in the skeletal system. Other conditions representing contraindications include:

- Severe vascular or neurological disease
- Uncontrolled diabetes
- Severe degenerative bone disease
- Uncooperative patients who cannot or will not follow post-operative instruction, including individuals who abuse drugs and/or alcohol
- Hypercalcemia, abnormal calcium metabolism
- Necrosis at the recipient site
- Inflammatory bone disease such as osteomyelitis
- Malignant tumors
- Severely impaired renal function
- Intra-articular implantations

WARNINGS

MEDLINEUNITE® Bioactive Bone Graft is not intended for load-bearing uses. It is important to ensure that the area where **MEDLINEUNITE®** Bioactive Bone Graft has been implanted be properly secured mechanically with rigid fixation to strengthen the surroundings. Attempts should not be made to modify the size of the granules or to change their shape. It is important to maximize contact between existing bone and the implant to ensure proper bone regeneration. The safety and effectiveness of **MEDLINEUNITE®** Bioactive Bone Graft on patients with the following conditions is unknown:

- Documented renal disease
- Metabolic bone disease
- Pregnant women
- Pediatric patients
- Radiation bone therapy
- Long-term infection
- Cardiovascular disease precluding elective surgery

POSSIBLE COMPLICATIONS

Successful results may not be achieved in every case. Reoperation to remove or replace an implant may be required due to specific medical conditions or device failure. Possible adverse effects include, but are not limited to:

- Wound complications including hematoma, edema, swelling and fluid accumulation, adverse tissue reaction, bone fracture, infection and other complications that are possible with any surgery.
- Incomplete, or lack of, bone formation

- Delayed or non-union
- Fracture of the bone void filler with or without particulate formation
- Transient hypercalcemia
- Fracture of the newly formed bone

PRECAUTIONS

- Content of package is **STERILE** by prior exposure to gamma irradiation unless opened or damaged. Read expiration date before use. Do not use if expiration date has been exceeded.
- The device is for **SINGLE USE ONLY**. DO NOT attempt to re-sterilize or reuse.
- **MEDLINEUNITE®** Bioactive Bone Graft is opaque to x-rays. This may mask areas under or above the implant on a radiograph.
- The graft must be secured to prevent potential migration and should only be used in surgical procedures where bone grafts are adequately contained.
- Fully fill the bony defect ensuring maximal contact between **MEDLINEUNITE®** Bioactive Bone Graft and the host bone.
- DO NOT overfill the bony defect or attempt to pressurize the bony defect site, as this may lead to extrusion of the product beyond the site of its intended application and may cause damage to the surrounding tissues.
- In the incidence of an open fracture, initial debridement and wound management should be performed. Exercise care to minimize periosteal stripping. Infections must be treated and sepsis eradicated prior to the graft procedure. Use prophylactic antibiotic coverage as appropriate.

INSTRUCTIONS FOR USE

All procedures should be performed under aseptic conditions.

1. Peel open pouch and remove syringe.
 2. Remove protective cap from the syringe and extrude the material.
 3. Crush implant to activate and mold as desired.
 4. **MEDLINEUNITE®** Bioactive Bone Graft is designed to be use alone or mixed with autograft (1:1 ratio) at the discretion of the surgeon.
 5. Secure the surgical site after implanting to prevent micro-motion and implant migration.
- When excess fluid is present at the surgical field, the surgeon may use cauterization, suction, and application of bone wax (if needed) to reduce bleeding. If the material is not positioned satisfactorily, remove the implant and start over with a new package of **MEDLINEUNITE®** Bioactive Bone Graft.