

Tel: +1 (519) 884-5142 Fax: +1 (519) 884-5184 Toll Free: +1 (877) 634-6340

Global: +(800) 634-634-00

Urgent Field Safety Notice – Update

Voluntary Product Recall

concerning

NDI Disposable Reflective Marker Spheres

Date: August 10, 2015

Attention: Hospital Management/Risk Manager, Product users

This is a follow-up communication to our original notification to Customers dated July 10, 2015. Please note that we have begun the planned transition from a supplemental product information to a voluntary Product Recall involving the lot numbers of NDI Disposable Reflective Marker Spheres, as stated below.

Products Affected:

41773 Disposable Reflective Marker Spheres (90 pcs)

41774 Disposable Reflective Marker Spheres (270 pcs)41813 Disposable Reflective Marker Spheres (60 pcs)

Lots Affected:

| | - | | | | | |
|------------|------------|------------|------------|------------|------------|------------|
| C100111502 | C101611501 | C102811401 | C103821501 | C105151401 | C107561301 | C109011402 |
| C100161401 | C101611503 | C102811402 | C103881401 | C105541401 | C107761401 | C109171301 |
| C100611401 | C101791401 | C103091401 | C104121401 | C106061301 | C108121301 | C109251401 |
| C100641501 | C102061501 | C103091402 | C104361301 | C106521401 | C108191401 | C109621401 |
| C100641502 | C102481501 | C103221501 | C104401401 | C106861401 | C108191402 | C109621402 |
| C101021501 | C102581401 | C103271401 | C104401402 | C106861402 | C108471401 | C110091401 |
| C101351501 | C102581402 | C103271402 | C104761401 | C107371401 | C108721401 | C110411402 |
| C101561401 | C102801501 | C103461501 | C105071401 | C107371402 | C109011401 | C110721401 |

Description of the problem:

NDI has determined there is a risk that Disposable Reflective Marker Spheres from these lots may separate at the mid-point where the two halves of the sphere are sealed together. Such separation could occur either during installation onto reference arrays or surgical tools (i.e., when threading them onto posts) or at any time during a surgical procedure. This is due to inadequate curing of the adhesive that joins to two halves of the sphere. The root cause of this failure has been identified as a manufacturing issue in which a piece of the fabric material remained in the path of the UV/Visible light used to cure the adhesive.

The potential separation into two hemispheres may not be recognized prior to use in a surgical procedure as it will likely only be recognized upon partial or complete separation of the sphere halves. Separation may occur during installation of the spheres onto surgical tools or potentially after installation on tools that are impacted with high forces.



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Risks

The following risks have been identified associated with this failure:

- (1) Prolongation of surgery due to the need to replace the broken sphere. We do not expect this would result in a significant increase in surgical time. We expect the probability of harm to be remote.
- (2) Potential patient risk should a portion of the sphere come into contact with the patient tissues. Based on the evaluation by an independent clinical expert, however, the probability of this risk is remote.
- (3) Contamination of a surgical trays, surgical drapes, or physicians' gloves due to contact by the separated component. The product is sterilized by Ethylene Oxide that has been validated but there is the potential of bioburden inside the sphere post sterilization but we expect the probability of harm to be remote.

We have no reports about injuries to a patient.

Actions to be taken:

- Communicate this notice to all personnel that are involved with Surgical Navigation procedures to make them aware of the issue.
- 2. Examine your inventory to determine if you have affected DRMS. Complete the enclosed Acknowledgement Form and return it immediately, even if you do not have inventory of affected DRMS.
- 3. Further distribution or use of any affected product should cease immediately.
- 4. The affected products can be returned to NDI or destroyed at the hospital. A credit note will be issued for the returned or destroyed products. If you choose to return affected products to NDI, please use the NDI UPS account No. 76581Y. Otherwise we cannot reimburse the transport costs. If you choose to return the products, then please mark the package with the RMA number 19560.
- Complete and return the acknowledgement form to Sales Support by email to sphereseu@ndigital.com or by fax to +49 (77 32) 82 34-199.

Transmission of this Field Safety Notice:

This notice needs to be passed on all those who need to be aware within your organisation or to any organisation where the potentially affected devices have been transferred.

We have established an additional inspection in production to prevent recurrence of this failure. NDI is committed to providing high quality, safe and effective products. We apologize for any inconvenience this action may have caused.

Contact reference person:

Should you require any further information or support concerning this issue, please contact:

NDI Europe GmbH Attn. Artorn Ruksayot Guttinger Str. 37, 78315 Radolfzell, Germany (t) +49 (77 32) 82 34 Ext. 123 (e) spheres-eu@ndigital.com.



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The undersigned confirms that this notice has been provided to the appropriate Regulatory Agency.

Manager Quality Assurance & Regulatory Affairs



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FSCA Acknowledgment Form NDI Disposable Reflective Marker Spheres

Please return the completed acknowledgement form immediately to:

Email: spheres-eu@ndigital.com or

| 1) I have reviewed and understand this Field Safety Notice. | | | | | | |
|--|---------------------------|--|--|--|--|--|
| I have forwarded this Field Safety Notice to the appropriate personnel. | | | | | | |
| | | | | | | |
| [Please select one of the following] | | | | | | |
| ☐ We had DRMS spheres from one or more of the affected lots in our inventory and destroyed them. | | | | | | |
| We had DRMS spheres from one or more of the affected lots in our inventory and returned them to | | | | | | |
| NDI (UPS account 76581Y). | | | | | | |
| We don't have any DRMS spheres from one or more of the affected lots in inventory. | | | | | | |
| | | | | | | |
| [please enter lot number and quantity of blister packs] | | | | | | |
| Lot number | Quantity of blister packs | | | | | |
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| Telefon: | | | | | | |
| Email: | | | | | | |
| Printed name: | | | | | | |
| Date and Signature: | | | | | | |