DMS No.: 3222480, V 01 **Page:** 1 of 12

2022-10-28

URGENT FIELD SAFETY NOTICE

FSCA Reference: 713001: PLS-Set – sterile barrier of components may be compromised

Field Safety Notice

(FSN) Type:

New

Affected Product:

PLS Set

| REF | Product Description | Article number | UDI-DI |
|-------------|--|----------------|----------------|
| BE-PLS 2050 | PLS Set for extracorporeal cardiac and/or pulmonary support. BIOLINE Coating | 701068386 | 04058863006635 |
| BE-PLS 2051 | PLS Set Plus for extracorporeal cardiac and/or pulmonary support. BIOLINE Coating | 701068389 | 04058863006666 |
| BO-PLS 2051 | HIT Set PLS Plus for extracorporeal cardiac and/or pulmonary support. SOFTLINE Coating | 701068390 | 04058863006673 |
| BE-PLS 2050 | China PLS Set for extracorporeal cardiac and/or pulmonary support. BIOLINE Coating | 701076706 | 04058863304533 |

Unique Device Identifier(s) (UDI-DI):

See UDI-Di in the table above

Affected Serial No.: See attached Annex I List of affected batches

For Attention of: Distributors, customers and users of the PLS Set

Dear valued customer,

At Getinge we always put patient safety first.

Maquet Cardiopulmonary GmbH has therefore decided to carry out the following FSCA measures for the PLS Set, PLS Set Plus and HIT Set PLS Plus, further named PLS Set.

Product description:

The PLS Set is intended for use in an extracorporeal circulation for cardiac support and/or pulmonary support. Both veno-venous and veno-arterial blood circulation are possible:

- Veno-venous blood circulation: Exclusive support/takeover of lung function
- Veno-arterial blood circulation: Support/takeover of cardiac function and support/takeover of lung function as required

The PLS Set contains following components, see figure 1.

DMS No.: 3222480, V 01 **Page:** 2 of 12

- 1. Priming bag with 2 inlets
- 2. Yellow protective cap
- 3. 3-way stopcock
- 4. Tube for gas supply
- 5. Recirculation line
- 6. PLS-i Oxygenator
- 7. Arterial line (red marking)
- 8. Venous line (blue marking)
- 9 . "Priming" 3-way stopcock
- 10. Priming lines with Roberts clamps
- 11. ROTAFLOW Centrifugal Pump RF-32
- 12. Sampling line (2 pieces)
- 13. Blue clamp
- 14. Scissors
- 15. Spike
- 16. Hemofiltration/Dialysis connectors (2 pieces) (only PLS Set Plus, HIT Set PLS Plus)
- 17. Marking for the attaching of the venous bubble sensor
- 18. Marking for the attaching of the arterial flow/bubble sensor

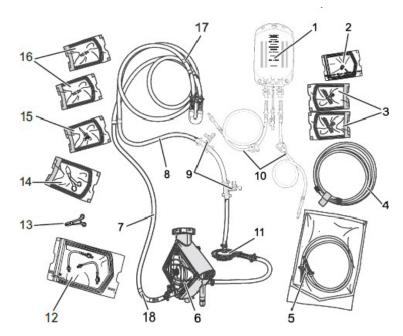


Figure 1 Components of PLS Set

Problem description

During internal investigation Maquet Cardiopulmonary GmbH (MCP) has identified that the packaging material (medical paper) of the PLS Set components recirculation line (5) and scissors (14) (see **Fehler! Verweisquelle konnte nicht gefunden werden.**) is inadequate to maintain the sterile barrier after removal from the primary sterile packaging (open Tyvek on the tray) if not consumed immediately during the priming process.

The affected packaging material of accessories might get damaged during the transportation and the damages might remain undetected as they are to small to identify them with naked eye.

The recirculation line (5) is used to wean the patient from the extracorporeal circulation (ECMO application) and is required at the end of application after 6 hours / 5 days / 14 days depending on product configuration.

The scissors (14) are used in different stages of the application 6h / 5d / 14d depending on product configuration if not consumed immediately after priming.

PLS Set itself is delivered sterile and compliant, this non-conformity relates to maintaining sterility after opening the PLS Set and removal of components (5) and (14) from the PLS Set tray for use in a later stage of extracorporeal circulation application.

Hazard giving rise to the Field Safety Corrective Action (FSCA)

Taking into consideration the packaging design of PLS Set the following immediate and long-term health consequences (harms) to patient may be potentially possible:

- 1. Hazardous Situation: Exposure of scissors and recirculation line to pathogenic agents Harm (direct): Inflammation, Infection, Sepsis
- 2. Hazardous Situation: Component exchange/replacement Harm (direct): User Inconvenience



DMS No.: 3222480, V 01 **Page:** 3 of 12

Population most at risk- Immunocompromised/immunosuppressed patients

Immunocompromised or immunosuppressed patients are susceptible to a broad range and variety of infection due to a suppressed (e.g. organ transplantation, chemotherapy) or a compromised (e.g. congenital syndromes, HIV) immune system.

Patients who have undergone splenectomy, such as those with Hodgkin disease, are at greater risk of developing infections than are patients with intact spleens because the spleen performs several important host defense functions, including antibody production and the removal pathogens. This cohort of patients may be considered as a sub-category of immunocompromised patients.

Despite the lack of a complete understanding into its mechanisms and associations, diabetic patients have been demonstrated, through multiple studies, to be a risk factor for infection in general and/or surgical site infections (SSIs) in particular; therefore, diabetic patients may also be considered as a sub-category of immunocompromised patients.

Last, many authors state that there appears to be a direct link to the susceptibility of infection and increasing age which may relate to impaired/again immune function, as well as anatomical and functional changes that correspond with the aging process.

Maquet Cardiopulmonary GmbH has not received any complaints of serious injuries, deaths related to the issue described above. Although there are no complaints, MCP GmbH sees an unacceptable risk resulting from this nonconformity.

Risk Mitigating Clinical Factors

There are no clinical factors inherent to the PLS Set, per se, which may serve to mitigate the risk described the problem above. However, the PLS Set Instruction for Use (IFU) makes the following statements regarding product sterility and use:

The use of non-sterile or defective devices can result in infection of the patient, user and third parties.

- Only use the device if it is sterile.
- Do not use the device if it or the sterile packaging is damaged.
- Observe the use-by date on the packaging.

Always observe strict asepsis when handling the device.

It is assumed that a healthcare practitioner will 1) visually inspect the product for signs of damage or lack of sterility, and 2) not use any product that is suspected to be non-sterile or displays visible package damage that may affect sterility. A thorough examination of all products to confirm sterility is standard practice and customary behavior among healthcare practitioners. However, depending on the size, character, and location of the holes in the packaging, the product user may not recognize or perceive packaging damage and, inadvertently, deploy the product. Further, recognition of a compromised product depends greatly on the size, character, and location of the holes (or, damage) in the packaging. Very small holes, imperceptible damage, or unrecognized breaches may not be detectable by the product user upon initial inspection, especially in an emergent situation.

Type of Action to mitigate the risk

Action to be taken by the user:

Other: Details see further actions below.

Description for a safe application of the product until implementation of corrective actions:

 Please be aware that the components supplied with a PLS Set must be consumed immediately after opening the Tyvek lid of the PLS Set tray, including the supplied scissors to cut the main line. All remaining **DMS No.:** 3222480, V 01 **Page:** 4 of 12

components that are not consumed during the priming process, must be disposed.

- For the use of the recirculation line to wean the patient from the extracorporeal circulation (ECMO application), you must take a new recirculation line from a new PLS Set, which MCP will provide you as a backup. The remaining components of the PLS set must be disposed after extraction of the recirculation line.
- All newly delivered PLS Set will contain a corresponding safety notice explaining the temporary FSCA measures again.
- If you have an affected PLS Set, please duly complete and sign the
 enclosed customer response form and send it back to your local
 Getinge representative, at the latest by November 18, 2022. Based on
 your response, you will receive PLS Sets, which can be used as a
 backup during application.
- Please report any adverse events in regard to the affected products to your Getinge Representative.

Action to be taken by the Manufacturer:

• With every new order of a PLS Set, the customer/ distributor will automatically receive an additional PLS Set (depending on the variant ordered), which can be used as a backup during application as long as the new packaging material is implemented in production.

Due Date: 18.11.2022

 Application of the instruction, described in the FSN to new delivered products. Action remains until new packaging material is implemented.

Due Date: 18.11.2022

Packaging redesign for the affected components.

Due Date: 23.12.2022

Enclosed documents:

N/A

- Customer response form
- Distributor response form
- Annex I List of affected batches

Advice for patients or the treatment/follow-up of patients treated with potentially affected devices

Transmission of the Field Safety Notice

- Please ensure in your organization that all users of the above-mentioned products and other persons to be informed are made aware of this Urgent Field Safety Notice.
- Please transfer this notice to other organizations on which the action has an impact.
- If you have given the products to third parties, please forward a copy of this information or inform the contact person indicated below.
- Please maintain awareness on the notice and resulting actions for an appropriate period to ensure effectiveness of the corrective action.



DMS No.: 3222480, V 01 **Page**: 5 of 12

We sincerely apologize for any inconvenience this may cause you and will do our utmost to carry through this action as swiftly as possible.

As required, we have provided this notification to the necessary Regulatory Agencies.

Should you have questions or require additional information, please contact your local Getinge representative, or send an e-mail to FSCA.cp@getinge.com.

Sincerely,

Managing Director

Person Responsible for Regulatory Compliance (PRRC)

Contact details of manufacturer

Maquet Cardiopulmonary GmbH Kehler Str. 31 76437 Rastatt GERMANY

Phone: +49 7222 932 - 0 Email: FSCA.cp@getinge.com **DMS No.**: 3222480, V 01 **Page**: 6 of 12

CUSTOMER RESPONSE FORM

FSCA Reference: 713001: PLS-Set – sterile barrier of components may be compromised

Affected Product: PLS Set

| REF | Product Description | Article number |
|-------------|--|----------------|
| BE-PLS 2050 | PLS Set for extracorporeal cardiac and/or pulmonary support. BIOLINE Coating | 701068386 |
| BE-PLS 2051 | PLS Set Plus for extracorporeal cardiac and/or pulmonary support. BIOLINE Coating | 701068389 |
| BO-PLS 2051 | HIT Set PLS Plus for extracorporeal cardiac and/or pulmonary support. SOFTLINE Coating | 701068390 |
| BE-PLS 2050 | China PLS Set for extracorporeal cardiac and/or pulmonary support. BIOLINE Coating | 701076706 |

Affected Serial No.: See Annex I list of affected batches

Please send this form to your local Getinge representative at the latest by November 18, 2022.

By completing this document and signing it, I acknowledge that I have read and understand the following associated points:

- I have read and understand this Field Safety Notice for products PLS Set. We will take action as soon as
 possible according to given instructions.
- I confirm that I have distributed this Field Safety Notice to the affected personal.

| l do not have ar | nv PLS Set in | my inventory. |
|----------------------|----------------|---------------|
| i uo noi nave ai | IN I LO OCLIII | THE HITCH |

- ☐ I have following lots of PLS Set in my inventory and will use them according to given instructions.
- ☐ I have following lots of PLS Set in my inventory and will send them back to you for credit.

Following affected PLS Set/s are in our inventory:

| REF | Article Number | Batch Number | Quantity |
|-----|----------------|--------------|----------|
| | | | |
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Your Comments:



| DMS No.: 3222480, V 01 | | Page: 7 of 12 |
|-------------------------------|----------------------------------|----------------------|
| | | |
| | | |
| Country | Hospital / Clinic (full address) | |
| | | |
| Date | Name (Function) | |
| Date | Name (Function) | |
| | - | |
| | Signature | |

Please return the completed form to your local Getinge representative by email enter local Getinge mail address or via post enter local Getinge address or FAX.

DMS No.: 3222480, V 01 **Page**: 8 of 12

DISTRIBUTOR RESPONSE FORM

FSCA Reference: 713001: PLS-Set – sterile barrier of components may be compromised

Affected Product: PLS Set

| REF | Product Description | Article number |
|-------------|--|----------------|
| BE-PLS 2050 | PLS Set for extracorporeal cardiac and/or pulmonary support. BIOLINE Coating | 701068386 |
| BE-PLS 2051 | PLS Set Plus for extracorporeal cardiac and/or pulmonary support. BIOLINE Coating | 701068389 |
| BO-PLS 2051 | HIT Set PLS Plus for extracorporeal cardiac and/or pulmonary support. SOFTLINE Coating | 701068390 |
| BE-PLS 2050 | China PLS Set for extracorporeal cardiac and/or pulmonary support. BIOLINE Coating | 701076706 |

Affected Serial No.: See Annex I list of affected batches

Please send this form to your local Getinge representative at the latest by November 18, 2022.

By completing this document and signing it, I acknowledge that I have read and understand the following associated points:

- I have read and understand this Field Safety Notice for products PLS Set. We will take action as soon as
 possible according to given instructions.
- I confirm that I have distributed this Field Safety Notice to the affected customers.

| I do not have any PLS Set in my inventor | orv. |
|--|------|
|--|------|

- ☐ I have following lots of PLS Set in my inventory and will use them according to given instructions.
- ☐ I have following lots of PLS Set in my inventory and will send them back to you for credit.

Following affected PLS Set/s are in our inventory:

| REF | Article Number | Batch Number | Quantity |
|-----|----------------|--------------|----------|
| | | | |
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Your Comments:



| DMS No.: 3222480, V 01 | | Page: 9 of 12 |
|-------------------------------|----------------------------|----------------------|
| | | |
| Country | Distributor (full address) | |
| Date | Name (Function) | |
| | Signature | |

Please return the completed form to your local Getinge representative by email enter local Getinge mail address or via post enter local Getinge address or FAX.

Page: 10 of 12

DMS No.: 3222480, V 01

Annex I List of affected batches

This Annex I List of affected batches is considered as a supplementary attachment to the 713001 Field Safety Notice.

Below are listed all batches of products which are affected and have been distributed.

| REF | Product Description | Article | Batch range |
|----------------------|--|-----------|----------------------------------|
| BE-PLS 2050 | PLS Set for extracorporeal cardiac and/or pulmonary support. BIOLINE Coating | 701068386 | from 3000204268 to 3000272105 |
| BE-PLS 2051 | PLS Set Plus for extracorporeal cardiac and/or pulmonary support. BIOLINE Coating | 701068389 | from 3000212851 to 3000270727 |
| BO-PLS 2051 | HIT Set PLS Plus for extracorporeal cardiac and/or pulmonary support. SOFTLINE Coating | 701068390 | from 3000208694 to 3000227579 |
| BE-PLS 2050 China | China PLS Set for extracorporeal cardiac and/or pulmonary support. BIOLINE Coating | 701076706 | from 3000190149 to 3000252498 |

| Country | Article No. | REF | Batch range |
|----------------|-------------|-------------------|----------------------------------|
| Argentina | 701068386 | BE-PLS 2050 | from 3000215240 to 3000238293 |
| Australia | 701068389 | BE-PLS 2051 | from 3000217589 to 3000254983 |
| Australia | 701068390 | BO-PLS 2051 | 3000227579 |
| Austria | 701068386 | BE-PLS 2050 | from 3000207509 to 3000208672 |
| Belgium | 701068386 | BE-PLS 2050 | from 3000205883 to 3000210639 |
| Belgium | 701068389 | BE-PLS 2051 | from 3000212851 to 3000228857 |
| Belgium | 701068390 | BO-PLS 2051 | 3000208694 |
| Brazil | 701068386 | BE-PLS 2050 | 3000217602 |
| Brazil | 701076706 | BE-PLS 2050 China | 3000221775 |
| Canada | 701068389 | BE-PLS 2051 | 3000221769 |
| Chile | 701068386 | BE-PLS 2050 | from 3000205881 to 3000218623 |
| China | 701076706 | BE-PLS 2050 China | from 3000190149 to 3000252498 |
| Colombia | 701068386 | BE-PLS 2050 | 3000207494 |
| Croatia | 701068386 | BE-PLS 2050 | from 3000205884 to 3000217606 |
| Croatia | 701068389 | BE-PLS 2051 | 3000221769 |
| Cyprus | 701068386 | BE-PLS 2050 | from 3000207494 to 3000216183 |
| Czech Republic | 701068386 | BE-PLS 2050 | from 3000205882 to 3000218628 |
| Czech Republic | 701068389 | BE-PLS 2051 | from 3000212853 |



DMS No.: 3222480, V 01 **Page**: 11 of 12

| Country | Article No. | REF | Batch range |
|------------------|-------------|-------------------|----------------------------------|
| | | | to 3000236094 |
| Denmark | 701068389 | BE-PLS 2051 | from 3000212853 to 3000220056 |
| Estonia | 701068389 | BE-PLS 2051 | from 3000212851 to 3000218618 |
| Finland | 701068389 | BE-PLS 2051 | from 3000212853 To 3000228857 |
| France | 701068386 | BE-PLS 2050 | from 3000205882 to 3000217606 |
| France | 701068389 | BE-PLS 2051 | from 3000212851 to 3000236094 |
| France | 701068390 | BO-PLS 2051 | from 3000208694 to 3000227579 |
| French Polynesia | 701068389 | BE-PLS 2051 | from 3000217604 to 3000228857 |
| Germany | 701068386 | BE-PLS 2050 | from 3000204268 to 3000218628 |
| Germany | 701068389 | BE-PLS 2051 | from 3000212851 to 3000236094 |
| Germany | 701068390 | BO-PLS 2051 | from 3000208694 to 3000227579 |
| Greece | 701068386 | BE-PLS 2050 | from 3000207500 to 3000217602 |
| Hong Kong | 701068386 | BE-PLS 2050 | from 3000207495 to 3000254703 |
| Hungary | 701068386 | BE-PLS 2050 | 3000216175 |
| India | 701068386 | BE-PLS 2050 | from 3000204268 to 3000254979 |
| Ireland | 701068386 | BE-PLS 2050 | 3000205884 |
| Israel | 701068386 | BE-PLS 2050 | from 3000204268 to 3000218623 |
| Italy | 701068386 | BE-PLS 2050 | from 3000204268 to 3000218627 |
| Italy | 701068389 | BE-PLS 2051 | from 3000217605 to 3000220056 |
| Italy | 701068390 | BO-PLS 2051 | 3000208694 |
| South Korea | 701068386 | BE-PLS 2050 | from 3000205881 to 3000254704 |
| Kuwait | 701068389 | BE-PLS 2051 | 3000212851 |
| Luxembourg | 701068386 | BE-PLS 2050 | from 3000208685 to 3000217595 |
| Macedonia | 701068386 | BE-PLS 2050 | from 3000205884 to 3000217601 |
| Malaysia | 701068386 | BE-PLS 2050 | from 3000210639 to 3000218627 |
| Martinique | 701068386 | BE-PLS 2050 | from 3000207495 to 3000207509 |
| Mexico | 701068386 | BE-PLS 2050 | from 3000206011 to 3000206018 |
| Mexico | 701076706 | BE-PLS 2050 China | 3000224128 |
| Morocco | 701068389 | BE-PLS 2051 | 3000225891 |



DMS No.: 3222480, V 01 **Page**: 12 of 12

| Country | Article No. | REF | Batch range |
|----------------------|-------------|-------------------|----------------------------------|
| Netherlands | 701068386 | BE-PLS 2050 | from 3000204268 |
| | | | to 3000218623 from 3000217588 |
| New Zealand | 701068389 | BE-PLS 2051 | to 3000254983 |
| Norway | 701068386 | BE-PLS 2050 | 3000216187 |
| Pakistan | 701068386 | BE-PLS 2050 | from 3000208680 to 3000210631 |
| Paraguay | 701068386 | BE-PLS 2050 | 3000217601 |
| Poland | 701068386 | BE-PLS 2050 | from 3000204268 to 3000225896 |
| Poland | 701068389 | BE-PLS 2051 | from 3000212851 to 3000228857 |
| Portugal | 701068386 | BE-PLS 2050 | from 3000207511 to 3000218628 |
| Réunion | 701068386 | BE-PLS 2050 | from 3000207513 to 3000217602 |
| Romania | 701068389 | BE-PLS 2051 | 3000217604 |
| Russia | 701076706 | BE-PLS 2050 China | from 3000190149 to 3000222468 |
| Saudi Arabia | 701068389 | BE-PLS 2051 | from 3000221769 to 3000254981 |
| Slovenia | 701068386 | BE-PLS 2050 | from 3000208672 to 3000218627 |
| Spain | 701068386 | BE-PLS 2050 | from 3000205881 to 3000218627 |
| Sweden | 701068386 | BE-PLS 2050 | 3000208680 |
| Switzerland | 701068386 | BE-PLS 2050 | from 3000207490 to 3000218623 |
| Taiwan | 701076706 | BE-PLS 2050 China | from 3000190149 to 3000192097 |
| Thailand | 701068389 | BE-PLS 2051 | From 3000212851 to 3000228855 |
| Turkey | 701068386 | BE-PLS 2050 | from 3000207490 to 3000254979 |
| Turkey | 701068390 | BO-PLS 2051 | 3000227579 |
| United Arab Emirates | 701068389 | BE-PLS 2051 | from 3000221769 to 3000254981 |
| United Kingdom | 701068386 | BE-PLS 2050 | from 3000207490 to 3000254706 |
| Vietnam | 701068386 | BE-PLS 2050 | from 3000207500 to 3000207509 |
| Vietnam | 701068389 | BE-PLS 2051 | from 3000217588 to 3000228857 |