Multi-Safe Disposal Boxes
For safe disposal

Multi-Safe

SARSTEDT
Welcome to Sarstedt

Your partner in medicine and science worldwide

Sarstedt, one of the world’s leading providers of laboratory and medical equipment, develops, manufactures and sells equipment and consumables in the field of medicine and science.

Founded in 1961, the company has continued to grow to the point where it now employs a workforce of 2,500. The Sarstedt Group comprises 31 sales organisations and 13 production sites in Europe, North America and Australia. The company’s headquarters are in North Rhine-Westphalia, Nümbrecht, Germany.

From blood sampling to “Multi-Safe” disposal – simple and safe!

As a well-known manufacturer of laboratory product and medical devices, we consider it our obligation to provide for safe disposal of our single-use products.

In view of the varying volumes and sizes of waste items requiring disposal in practices, clinics and universities, we offer a wide range of disposal products to cover all of these user needs. This product variety is reflected in the many different volumes, openings, forms and final closures offered.

We make sure all boxes satisfy at least the minimum TRBA 250 (German regulation) requirements so we can guarantee safe disposal box handling to you, the users. Of course our Multi-Safe Disposal Boxes also comply with the international regulations like UN and ISO 23907. These latter regulations differ from the TRBA 250 in that they are generally not concerned with form or appearance, but rather with robustness (wall thickness, 1.20 m drop tests, etc.).

The UN certification also regulates whether or not a disposal box may be filled with hazardous materials. UN-certified boxes are recognized by the multi-digit UN Code, usually imprinted on the top of the lid.

All of our Multi-Safe Disposal Boxes are made of polypropylene and can therefore be subjected to environmentally friendly incineration, whereby no harmful substances are released.

Needlestick injury (NSI) among healthcare personnel is a frequent occurrence worldwide. This occurs in particular when sharp or pointed objects are discarded. Hepatitis B (HBV), Hepatitis C (HCV) and HIV are the viruses that occur most frequently. In Germany alone, an estimated 500,000 needlestick injuries occur with follow-up costs amounting to approx. 50 million euros. NSI occur most frequently among medical personnel (approx. 39%) and nursing personnel (approx. 34%).

These numbers alone underline the importance of using high-quality disposal boxes! To prevent potentially harmful mistakes in this area we consider it important to provide proper instructions for use and internal training programmes to ensure safe handling of Multi-Safe Disposal Boxes.

1) Deutsches Ärzteblatt (German Medical Gazette) 2007, Vol. 104, pp. A3102-3107

If you need further information or wish to view several Multi-Safe Disposal Boxes at a glance (see pp. 34/35), just scan the QR Code and go to our website www.sarstedt.com.

https://www.sarstedt.com

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SARSTEDT

For over 50 years
Multi-Safe for Transport - small containers with big benefits

- Safe sharp container for transport purposes
- Suitable for outpatient use by physicians, nurses and ambulance services, for doctor’s bags and emergency medical cases
- Open and close day lid and final closure with one hand
- Premounted lid
- Space-saving

See product overview on page 34 for the specific box certifications.
The practical safety box for user-friendly disposal of sharp, pointed and dangerous objects for both stationary and ambulatory use

- Round container form
- Openings of different sizes
- The size of the disposal opening can be further enlarged by breaking out sections as required (quick S only)
- Break out sections before use!
- Containers can be fastened to a number of different holders to prevent them from overturning (see accessories on page 32)
- Closure cap does not spring back. This means nothing gets in the way during removal and stripping
- Various detaching devices

See product overview on page 34 for the specific box certifications.
Multi-Safe quick

Multi-Safe quick 1000

Multi-Safe quick 500

Multi-Safe quick S 2500

Multi-Safe quick S 2000

Multi-Safe quick S 1500

Accessories for quick (see p. 32)

Accessories for quick (see p. 32)

Ordering information

<table>
<thead>
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<th>Pcs. per pallet</th>
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*UN test quick 500 only

Ordering information

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*UN test quick S 1500 only

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<td>120 x 80 x 195</td>
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</tbody>
</table>

*UN test quick S 1500 only

SARSTEDT
**Multi-Safe vario**

For small bulky waste items:
- Rectangular container form
- Generous disposal opening for small bulky waste items
- Suitable holders are available for wall or table fixation of the boxes (see accessories on page 32)
- Day lid is designed to remain in position when opened
- Can be used as accessory for Safety-Trays (see page 31)
- Lateral carrying handle
- Stackable to save space
- Various detaching devices

See product overview on page 34 for the specific box certifications.

### Accessories for vario (see p. 32)
- Insulin pens
- Scalpels
- Cannulas
- Luer lock systems

### Ordering information

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<th>REF</th>
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* for vario 1500 only: ISO 23907 and TRBA 250
Multi-Safe twin - from small to large

- Container with conical taper
- The size of the disposal opening can be further enlarged by breaking out sections as required (exception: twin 700)
  Break out sections before use!
- A variety of holders are available to fasten the boxes securely to walls or surfaces so they won’t overturn
  (see accessories on page 32)
- Lateral carrying handles
- Hinged day lid
- Twin boxes are available in many different volumes to cover a large number of different disposal needs
- The tall twin 5000 is particularly suitable for long-stemmed objects (e.g. pipettes, trocars)
- Lateral grooves on the lid confirm closure visually
- Can be used as accessory for Safety-Trays (see page 31)
- Various detaching devices

See product overview on page 34 for the specific box certifications.
Multi-Safe twin

Accessories for twin (see p. 32)

Multi-Safe twin 3000

Multi-Safe twin 2100

Multi-Safe twin 1800

Ordering information

<table>
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Multi-Safe twin 700

Ordering information

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Scalpels
Cannulas
Luer lock systems
Insulin pens

Removable flaps
Luer lock systems
Scalpels
Cannulas
Luer lock systems
Insulin pens

Accessories for twin (see p. 32)
Multi-Safe opti

For the disposal of scalpels, cannulas, disposable syringes, tubing, broken glass and long-stemmed objects (e.g. pipettes)

- Round container form
- The size of the disposal opening can be further enlarged by breaking out sections as required (exception: opti 500 T and 700) Break out sections before use!
- Hinged day lid (exception: opti 500 T)
- A variety of holders are available to fasten the boxes securely to walls or surfaces so they won’t overturn (see accessories on page 30)
- Carrying handles (exception: opti 500 T)
- Opti 500 T is used specifically on syringe trays (see page 31)
- With the opti 500 T, detached insulin pens can be pushed completely through the aperture using a rib on the inside of the lid
- The different versions have different deposit opening sizes
- Lateral grooves on the lid confirm closure visually (exception: opti 500 T)

See product overview on page 34 for the specific box certifications.

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</table>
Multi-Safe opti

Accessories for opti (see p. 32)

Multi-Safe opti 500 T

- Optimally suited for syringe trays

Multi-Safe opti 700

- Specifically designed for Safety-Trays

Detached insulin pens can be pushed into the aperture with the nib

Luer lock systems

Scalpels

Cannulas

Luer lock systems

Detached insulin pens

Insulin pens

Syringe trays

Box dimensions [cm]

Pallet dimensions [cm]

Pcs. per pallet

Material

Pcs. per box

Volume in l

REF

TRBA 250 certified

ISO CERTIFIED

ISO 23907

UN CERTIFIED

SARSTEDT

164 mm

Ø 62 mm

166 mm

Ø 78 mm

Ordering information

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<td>170</td>
<td>2,720</td>
<td>43.5 x 29.5 x 80</td>
<td>120 x 80 x 195</td>
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77.3896.005 | Multi-Safe opti 500 T | 0.5         | Polypropylene | 110          | 1,760            | 40 x 29.5 x 80      | 120 x 80 x 195         |
Multi-Safe euroMATIC® – innovative design and engineering – The Premium Model

- Square container form
- Robust container and lid
- All boxes can be fixed with an adhesive or a wall holder to prevent them from overturning (see accessories on page 32)
- Innovative day lid and final closure facilitates single-handed use of day lid in daily routine (day lid opens automatically at the push of a button)
- A hinge on the day lid makes repeated opening and closing possible, secure final closure is made visible by removing the yellow ring
- Single-handed operation and large deposit opening make for rapid and safe disposal of bulky objects
- Lateral grooves at the upper edge confirm closure visually
- Lateral carrying handle
- Various detaching devices

See product overview on page 34 for the specific box certifications.

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</table>
**Large-volume disposal box**

- Round container form
- The generous round contact surface renders additional securing measures unnecessary
- Various versions (with or without handle, additional label)
- The closures are designed to automatically stay back when opened, freeing the deposit opening
- Lateral grooves at the upper edge confirm closure visually
- Various stripping/detaching devices

See product overview on page 34 for the specific box certifications.

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**Ordering information**

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*UN test - only medi 6, medi 6 with handle, medi 6 with handle and label*
A secure and stable disposal box for the disposal of clinical waste

- Rectangular container form
- The large contact surface renders additional securing measures unnecessary
- Two volumes, two designs
- Multi-Safe 25 & 50 - lid in lid system to vary the deposit opening
- Final closure is impervious to liquids with adhesive strips along the edge of the lid
- Lateral grooves at the upper edge confirm closure visually
- Stackable both empty and filled
- Suitable for oncological waste, cytostatics
- Collect- and transport container for disposal boxes with small volume

See product overview on page 34 for the specific box certifications.
Multi-Safe steri - Generously sized, practical, safe, autoclavable

- Rectangular container
- The large contact surface renders additional securing measures unnecessary
- Safe and stable for disposal of infectious waste
- Autoclavable at 121°C to 134°C
- The small cover melts at about 90°C to enable autoclaving, a grate prevents waste from falling out
- The small covers can be purchased additionally for labeling of autoclaved boxes (77.3888.800 - yellow; other colours are possible)
- Easy transport with handles on top and bottom sections
- Lateral grooves on the lid confirm closure visually
- Stackable both empty and filled
- Collect- and transport container for disposal boxes with small volume

See product overview on page 34 for the specific box certifications.
Multi-Safe Safety-Tray

Customer-specific Multi-Safe Disposal Box

- Multi-Safe Disposal Boxes can also be ordered as custom-made items beginning at a minimum order volume (e.g. with different colours, personalized label, etc.).
- Additional certification with your company address for the Multi-Safe Disposal Box custom-made for you is available upon request.

Please contact our hotline if you have any questions in this regard.

Safety-Tray – for organising blood collection supplies

- You can customize the Safety-Tray for your blood sampling procedures based on its flexible variations.
- Important: The accessories shown here are not included in the scope of delivery and must be ordered separately.

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<td></td>
<td>1 x Multi-Safe opti 700</td>
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<tr>
<td></td>
<td>3 x Multi-purpose cup</td>
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<tr>
<td></td>
<td>1 x Disinfectant spray</td>
<td></td>
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<td>Version II 2 x Dispenser box with lid</td>
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<tr>
<td></td>
<td>1 x Multi-Safe opti 700</td>
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<tr>
<td></td>
<td>8 x Multi-purpose cup</td>
<td></td>
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<tr>
<td></td>
<td>1 x Disinfectant spray</td>
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<tr>
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<td></td>
<td>1 x Multi-purpose cup</td>
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<tr>
<td></td>
<td>4 x Multi-purpose cup</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 x Disinfectant spray</td>
<td></td>
</tr>
</tbody>
</table>

Individualized custom-made options

- other colours
- personalized label
- etc.

Customer-specific Multi-Safe Disposal Box

Multi-Safe Disposal Boxes can also be ordered as custom-made items beginning at a minimum order volume (e.g. with different colours, personalized label, etc.). Additional certification with your company address for the Multi-Safe Disposal Box custom-made for you is available upon request.

Please contact our hotline if you have any questions in this regard.

Accessories

<table>
<thead>
<tr>
<th>REF</th>
<th>Article designation</th>
<th>Version</th>
<th>Pcs. per box</th>
</tr>
</thead>
<tbody>
<tr>
<td>77.3896.027</td>
<td>Multi-Safe opti 700</td>
<td>0.7 l, fits Version I and III</td>
<td>170/box</td>
</tr>
<tr>
<td>77.3893.015</td>
<td>Multi-Safe vario 1500</td>
<td>1.5 l, fits Version II and IV</td>
<td>60/box</td>
</tr>
<tr>
<td>77.3894.018</td>
<td>Multi-Safe twin 1800</td>
<td>1.8 l fits Version V</td>
<td>100/box</td>
</tr>
<tr>
<td>95.813.001</td>
<td>Dispenser box</td>
<td>with lid for Safety-Tray</td>
<td>35/box</td>
</tr>
<tr>
<td>75.1355.100</td>
<td>Multi-purpose cup</td>
<td>125 ml for Safety-Tray</td>
<td>1,000/box</td>
</tr>
<tr>
<td>93.851</td>
<td>Rack D17</td>
<td>with handle, grey</td>
<td>12/box</td>
</tr>
<tr>
<td>93.851.171</td>
<td>Rack D17</td>
<td>with handle, red</td>
<td></td>
</tr>
<tr>
<td>93.851.172</td>
<td>Rack D17</td>
<td>with handle, yellow</td>
<td></td>
</tr>
<tr>
<td>93.851.173</td>
<td>Rack D17</td>
<td>with handle, green</td>
<td></td>
</tr>
<tr>
<td>93.851.174</td>
<td>Rack D17</td>
<td>with handle, blue</td>
<td></td>
</tr>
<tr>
<td>93.851.175</td>
<td>Rack D17</td>
<td>with handle, orange</td>
<td></td>
</tr>
</tbody>
</table>
For simple and secure mounting of the Multi-Safe sharps containers to the wall, table or any smooth surface

Absorbent materials (ISO 23907)
On the basis of ISO 23907, placement of the following absorbent materials in each disposal box is required to prevent leakage of liquid residues. It is important to make sure sufficient absorbent material is used to cover the entire filling volume of the box.

Ordering information

<table>
<thead>
<tr>
<th>REF</th>
<th>Absorbency</th>
<th>Minimum order volume</th>
<th>for Multi-Safe</th>
</tr>
</thead>
<tbody>
<tr>
<td>78.669</td>
<td>16 ml each</td>
<td>1,000</td>
<td>euroMatic®, opti, twin, quick/quick S</td>
</tr>
<tr>
<td>78.684</td>
<td>8 ml each</td>
<td>2,000</td>
<td>sani, mini</td>
</tr>
<tr>
<td>95.1712</td>
<td>1200 ml each</td>
<td>100</td>
<td>euroMatic® (6.0 and 7.0 litres), medi</td>
</tr>
</tbody>
</table>

Multi-Safe label
Labels as follows can be ordered in addition to the disposal boxes:

Ordering information

<table>
<thead>
<tr>
<th>REF</th>
<th>Article designation</th>
<th>Pcs. per inner box</th>
<th>Pcs. per outer box</th>
</tr>
</thead>
<tbody>
<tr>
<td>84.1390.022</td>
<td>Label 70x80 mm</td>
<td>2000</td>
<td>8000</td>
</tr>
<tr>
<td>Box type</td>
<td>REF</td>
<td>Tests</td>
<td>TRBA 250</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------------</td>
<td>-------</td>
<td>----------</td>
</tr>
<tr>
<td>Multi-Safe sani 200</td>
<td>77.3890.002</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe mini 300</td>
<td>77.3890.003</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe quick 500</td>
<td>77.3891.005</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe quick 1000</td>
<td>77.3891.010</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe quick 1500</td>
<td>77.3891.015</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe quick 2000</td>
<td>77.3891.020</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe quick 2500</td>
<td>77.3891.025</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe quick 8 1500</td>
<td>77.3892.015</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe quick 8 2000</td>
<td>77.3892.020</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe quick 8 2500</td>
<td>77.3892.025</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe vario 1500</td>
<td>77.3893.015</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe vario 2300</td>
<td>77.3893.023</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe twin 700</td>
<td>77.3894.007</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe twin 1800</td>
<td>77.3894.018</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe twin 2100</td>
<td>77.3894.021</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe twin 3000</td>
<td>77.3894.030</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe twin 5000</td>
<td>77.3894.050</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe opti 500 T</td>
<td>77.3895.005</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe opti 700</td>
<td>77.3895.007</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe opti 1700</td>
<td>77.3895.017</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe opti 2100</td>
<td>77.3895.021</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe opti 3000</td>
<td>77.3895.030</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe euroMatch® 3000</td>
<td>77.3897.030</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe euroMatch® 4000</td>
<td>77.3897.040</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe euroMatch® 6000</td>
<td>77.3897.050</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe euroMatch® 7000</td>
<td>77.3897.070</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe mac 6</td>
<td>77.3898.006</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe mac 11</td>
<td>77.3898.011</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe mac 6, with handle</td>
<td>77.3898.056</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe mac 11, with handle</td>
<td>77.3898.111</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe mac 6, with handle and label</td>
<td>77.3898.206</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe mac 11</td>
<td>77.3898.311</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe eco 25</td>
<td>77.3899.025</td>
<td>-</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe eco 50</td>
<td>77.3899.050</td>
<td>-</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe stori 35</td>
<td>77.3899.035</td>
<td>-</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe stori 60</td>
<td>77.3899.060</td>
<td>-</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe 25</td>
<td>77.3899.125</td>
<td>-</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-Safe 50</td>
<td>77.3899.150</td>
<td>-</td>
<td>✓</td>
</tr>
</tbody>
</table>
Safe handling of Disposal Boxes euroMATIC®, steri, eco, opti, twin

Centre lid on lower section of box. The red day lid and carrying handle point forwards. Press down simultaneously on opposing lid corners to join lid and lower box section. Lid must be pressed in evenly all along the edge until it snaps in audibly and visibly (see view in circle).

Safe handling of Disposal Boxes quick & quick S, vario, opti, 500T, medi

Centre lid on lower section of box. Yellow day lid faces forwards. Press down simultaneously on opposing sides of lid to join lid and lower box section. Lid must be pressed in evenly all along the edge until it snaps in audibly and visibly.

Safe handling of Disposal Boxes eco/Multi-Safe (lid in lid)

Centre lid on lower section of box. Press down simultaneously on opposing lid corners to join lid and lower box section. Lid must be pressed in evenly all along the edge until it snaps in audibly and visibly.

Day closure / Final closure

1 x snap-in (for reuse) 2 x snap-in (final closure)
Note on use of Multi-Safe

Proper and intended use
The disposal container is used solely for disposal of pointed and sharp objects, e.g. cannulas and scalpel blades, resulting from medical practice.

Safety information
- Use only boxes that are suitable for the objects you wish to dispose of.
- Store box out of reach of children.
- The lid must be in place and snapped in before filling the container.
- Unscrew to connect box to recommended adhesive adapter, or attach to wall holder, to prevent overturning.
- Do not use day lid to push objects to be discarded into the container.
- Exercise particular caution when disposing of scalpels in the box. If too much force is exerted when inserting or filling items into the box, the walls of the box may be tilted and the walls or bottom of the box may be damaged.
- Insert waste items vertically into the box.
- Never force objects into the box.
- Do not fill liquids into the box.
- Do not fill box above the full line (risk of injury!).
- Do not reach into the box with the hand or otherwise (risk of injury!).
- Do not throw box to the floor. Do not shake box. Do not drop box.
- Make sure no objects are sticking out of the opening before final closure of the box.
- Close box by hand only and do not apply force.
- During final closure do not press the box against your body (e.g. against your chest!).
- Do not compress filled box from the outside.
- Use the carrying handle.
- Check carefully to make sure the lid is tightly closed before disposing of the box.

ISO 23907
If the box is to be used according to this directive, one of the absorbent inserts on page 33 must be placed in it.

Disposal and the environment

✓ The plastics used in our products are environmentally neutral when disposed of.
✓ It is safe to dispose of these plastics in landfills since they release no harmful substances into the air, soil or water.
✓ When disposed of in waste incineration plants, the plastics PS, PP, PC and PE serve as valuable energy sources to maintain incineration chamber temperature. The higher the plastic content of the waste, the lower the amount of heating oil required. Incineration of these plastics does not produce harmful emissions.

<table>
<thead>
<tr>
<th>Material properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polystyrene (PS)</td>
</tr>
<tr>
<td>Polypropylene (PP)</td>
</tr>
<tr>
<td>Polycarbonate (PC)</td>
</tr>
<tr>
<td>Polyethylene (LD-PE, HD-PE)</td>
</tr>
</tbody>
</table>

**Optical properties**
- Transparent, shiny surface 50% transmittance at 400-800 nm
- Translucent, shiny surface
- Transparent, shiny surface 88% transmittance at 400-800 nm
- Translucent to opaque, waxy surface

**General mechanical properties**
- Low levels of elongation and high temperature strength, very good electrical insulation properties, not suitable for high centrifuge speeds
- High level of break resistance, resistant to stress cracking, high dimensional stability, high level of rigidity
- Very good mechanical, optical, electrical and thermal properties, autoclavable, sterilisable
- Relatively low levels of breaking strength and surface hardness, high level of toughness, soft to rigid, susceptible to stress cracking, water-resistant

**Suitability for autoclaving**
- Not suitable
- Products made of PP can be autoclaved at up to 121°C without significant deterioration of their mechanical properties. Users must determine by testing whether other product properties are influenced with regard to the desired use of a given product.
- Products made of PC can be autoclaved at up to 121°C without significant deterioration of their mechanical properties. Users must determine by testing whether other product properties are influenced with regard to the desired use of a given product.

**Max. temperature for continuous use**
- PS: 60 - 70°C
- PP: 100 - 110°C
- PC: 115 - 120°C
- LD-PE: 60 - 70°C
- HD-PE: 70 - 80°C
- HD-PE: 80 - 90°C

**Temporary maximum temperature for use**
- PS: 75 - 80°C
- PP: 120 - 140°C
- PC: 125 - 140°C
- LD-PE: 90 - 120°C
- HD-PE: 80 - 90°C

**Use at below-zero temperatures**
- PS: suitability limited
- PP: conditionally suitable
- PC: conditionally suitable
- LD-PE: not suitable
- HD-PE: not suitable

**Density g/cm³**
- PS: 1.05
- PP: 0.90
- PC: 1.19
- LD-PE: 0.95
- HD-PE: 0.80

**Comaptibility**
- PS: combustible
- PP: combustible
- PC: combustible
- LD-PE: combustible
- HD-PE: combustible

**Ignition temperature**
- PS: 300 - 400°C
- PP: 300 - 380°C
- PC: 380 - 400°C
- LD-PE: 350 - 360°C
- HD-PE: 350 - 370°C

**Moisture absorption**
- PS: < 0.1%
- PP: < 0.1%
- PC: 0.1 - 0.3%
- LD-PE: < 0.1%
- HD-PE: < 0.1%

**General chemical resistance**
- PS: resistant to salt solutions, lyes, non-oxidising acids, alkalis and alcohols. Benzene, ethereal oils, highly oxidising agents and aromatics attack PS, resulting in stress cracking.
- PP: resistant to aqueous solutions of inorganic salts, acids, alkalis and organic solvents at up to 80°C. Alcohols, ethers and ketones also do not attack PP. Aromatic and halogenated hydrocarbons, oxidising substances such as concentrated nitric acid, and at higher temperatures fats, oils and waxes, cause PP to swell.
- PC: resistant to higher concentrations of mineral acids, many organic acids (e.g. carbonic acid, acetic acid and citric acid), oxidants, reductants, neutral and acidic salt solutions, a number of fats and oils, saturated, aliphatic and cycloaliphatic hydrocarbons and alcohols with the exception of methanol. Lyes, ammonia gas, as well as its soluble form and amines, attack PC. PC is soluble in a number of industrial solvents. Other organic compounds such as benzene, acetonitrile and carbon tetrachloride can cause cracking or swelling.
- LD-PE: resistant to acids, alcohols, and water, and attack fatty and unsaturated fats and oils. It does not attack PC. Concentrated oxidising acids such as nitric acid and hydrogen peroxide have a disintegrating effect.
- HD-PE: resistant to hydrocarbons. Generally speaking HD-PE is more resistant to chemicals than LD-PE.

**Disposal**
- PS is a pure hydrocarbon compound and is therefore environmentally neutral when disposed of. A regulated combustion process does not produce any harmful substances.
- PP is a pure hydrocarbon compound and is therefore environmentally neutral when disposed of. A regulated combustion process does not produce any harmful substances.
- PC is a pure hydrocarbon compound and is therefore environmentally neutral when disposed of. A regulated combustion process does not produce any harmful substances.
- LD-PE: resistant to hydrocarbons. Generally speaking HD-PE is more resistant to chemicals than LD-PE.
- HD-PE: resistant to hydrocarbons. Generally speaking HD-PE is more resistant to chemicals than LD-PE.

1. The level of suitability depends on the plastic types used in each case as well as from the type of stress itself.
2. Important: The plastic materials become more brittle at below-zero temperatures. Before using products in the below-zero range tests should be run for the application in question. This information is intended as a guideline only and cannot be construed as a warranty of product properties.
Contact us if you have any questions, we will be glad to help!

You can also visit our website at

www.sarstedt.com