

# SGE NEEDLE CLEANING KIT

## Part No. 031782

### Care and repair of your SGE Syringe

Your SGE syringe is a precision instrument, regular maintenance is important for ensuring long life and robust performance. The following cleaning steps should be followed.

Syringes should be carefully cleaned after use.

Syringe cleaning agents will usually depend on the contaminating material. Methanol, methylene chloride, acetonitrile and acetone are commonly used.

Do not immerse the entire syringe in solvent as this may damage the adhesive used to bond parts of the syringe. Clean externally by wiping with a tissue.

Ensure the syringe is dry before storage.

Never force the plunger – too much pressure may crack the barrel. Do not try to forcibly operate a syringe with a blocked needle, the high pressure created may crack the glass barrel.

The SGE Needle Cleaning Kit is ideal for cleaning and unblocking needles.

### The Needle Cleaning Kit contains the following items:

| Part No | Description                             |
|---------|---|
| 031745  | Tube of 5 wires 15 cm long x 0.10 mm OD |
| 031746  | Tube of 5 wires 15 cm long x 0.15 mm OD |
| 031747  | Tube of 5 wires 15 cm long x 0.20 mm OD |
| –       | 20 ml cleaning solution concentrate     |
| –       | Tweezers                                |

### Cleaning Solution

The cleaning solution concentrate supplied is biodegradable, non-toxic, non-corrosive, nonflammable and has no phosphates. For routine cleaning, tap water may be used to prepare cleaning solutions, but for more critical work distilled water should be used.

Typical concentrations are:

- 2 % solution for normal contamination
- 5 % solution for heavy contamination
- up to 20 % solution for persistent contamination

### Stylet Cleaning Wires

The following table will help you determine the appropriate cleaning wire for your SGE syringe needle.

| Plunger-in-barrel<br>Syringe capacity | Wire<br>OD | Part<br>No. |
|---------------------------------------|------------|-------------|
| 5, 10 µL                              | 0.10 mm    | 031745      |
| 25, 50 µL                             | 0.15 mm    | 031746      |
| 100 µL and over                       | 0.20 mm    | 031747      |

### Cleaning Syringe Needles

1. Remove the plunger.
2. Select a suitable stylet cleaning wire. Using a sharp pair of scissors, cut the wire about 10 mm longer than the blocked needle.
3. Firmly grip the wire with the tweezers supplied, about 2 mm from one end, and gently feed that end of the wire into the needle about 2 mm at a time until it touches the obstruction.
4. Using short but gentle stabbing strokes against the blockage, the obstruction should dislodge from the needle. To help remove a more persistent obstruction, occasionally dip the wire into the cleaning solution concentrate.
5. After the blockage has been removed, refit the plunger, flush the syringe and needle with the concentrate followed by distilled water. Flush with acetone.
6. Allow the syringe to air dry.

## Cleaning Syringe Barrels

1. Pump a suitable concentration of the SGE cleaning solution through the syringe – withdrawing the plunger to full scale.
2. Rinse the syringe with distilled water.
3. Flush with acetone.
4. Remove plunger and wipe with a lint-free tissue. Taking care not to touch or damage the plunger.
5. Refit plunger and flush with acetone.
6. Allow syringe to air dry.

## Cleaning Plunger-in-needle Syringes

Refer to the cleaning steps for NanoVolume syringes in the manual supplied with the syringe.

### AUSTRALIA & PACIFIC REGION

SGE Analytical Science Pty Ltd  
Toll Free: 1800 800 167  
Tel: +61 (0) 3 9837 4200  
Fax: +61 (0) 3 9874 5672  
Email: support@sge.com

### EUROPE

SGE Europe Ltd  
European Head Office  
Toll Free: 00800 2790 8999  
Tel: +44 1908 568 844  
Fax: +44 1908 566 790  
Tel France: +33 1 69 29 80 90  
Fax France: +33 1 69 29 09 25  
Tel Germany: +49 (0) 6155 / 60746 0  
Fax Germany: +49 (0) 6155 / 60746 50  
Email: europe@sge.com

### CHINA

SGE Shanghai Representative Office  
Tel: +86 21 6407 9382  
Fax: +86 21 6407 9386  
Email: china@sge.com

### INDIA

SGE Laboratory Accessories Pvt Ltd  
Tel: +91 22 24715896  
Fax: +91 22 24716592  
Email: sgeindia@vsnl.com

### JAPAN

SGE Japan Inc  
Tel: +81 45 222 2885  
Fax: +81 45 222 2887  
Email: japan@sge.com

### UNITED STATES OF AMERICA

SGE Incorporated  
Toll Free: (800) 945 6154  
Tel: +1 512 837 7190  
Fax: +1 512 836 9159  
Email: usa@sge.com

