

# PLASDET

Clinical  
Surface & Device Cleaner

AS/NZS 4187 & 4815  
Compliant

Gentle and Effective Cleaning Solution for All Surfaces

**QMI**  
QUALITY MEDICAL INNOVATIONS

Plasdet is a clinical detergent specially formulated for cleaning all surfaces including plastics.

## Applications include:

- ✓ All Surfaces.
- ✓ Chairs & Upholstery.
- ✓ Overhead Light Covers.
- ✓ Curing Lights.



## Plasdet is also ideal for;

- ✓ Connectors, Lines & Tubes.
- ✓ Ophthalmic Equipment.
- ✓ Training Manikins.
- ✓ Respiratory Apparatus

*\*\*Plasdet is available in a 5 Litre container or packs of 6 x 500ml ready to use solution including trigger applicator or pour top.*

Plasdet is an exceptionally environmentally friendly product as it is formulated from advanced surfactants and sequestering agents that are made using renewable biological resources



**SYMBIO AUSTRALIA**  
TOTAL HYGIENE SOLUTIONS

Symbio Australia Pty Ltd  
Ph: 1300 479 624  
enquiry@symbio.com.au,  
www.qmi.symbio.com.au



Also Available From:

# Cleaning Sensitive Equipment and Accessories – Plastics

## What Causes Cracking of Plastics?

Environmental stress cracking (ESC) of plastics is a common and inevitable process that all hard plastics will undergo. ESC occurs particularly in hard brittle plastics at points where the plastic is under stress or load. These stress points include hinges, screw or rivet holes or where a load or stress is regularly applied. ESC occurs naturally with plastics over time, however different plastics vary dramatically in their susceptibility to ESC. The majority of plastics used in the construction of quality devices are very resistant to ESC. On the other hand plastics such as polycarbonate and perspex for example are very sensitive to ESC. ESC can be accelerated by different stressing agents which include air (through oxidation of the polymer), light (particularly UV), physical pressure & heat (eg. sterilization).

Chemical agents can also accelerate ESC, but again different plastics vary dramatically in their susceptibility to these agents. For example a susceptible plastic may be destroyed within minutes on contact with petrol yet another type of plastic can be used to store petrol in.

Perhaps the most aggressive of the chemical agents are the small molecular weight volatile solvents, with low water solubility. These tend to dissolve the plastic or insert between the polymer strands & disrupt the structure of the plastic thus weakening it & promoting ESC.

Other commonly encountered agents that can promote ESC are certain surfactants. However there are hundreds if not thousands of different surfactants with different structures and chemical properties to suit different applications. As would be expected surfactants range in their ability to promote ESC from very aggressive to almost no effect.

This generalisation must also be taken in light of variable plastic susceptibility as described above. In general quaternary ammonium surfactants are recognised as agents that promote ESC particularly in sensitive plastics such as polycarbonates.

Plasdet has been formulated using surfactants & sequestering agents that show minimal interaction with sensitive plastics.