

## OP9003 Resin Stripper & OP9004 Machine Cleaner

Product Code: OP9003 & OP9004

### PRODUCT DESCRIPTION

**OP9003** and **OP9004** are special non-flammable blends of solvents designed to swell and soften cured epoxy, polyurethane and other resins and enable their removal from most substrates. **OP9004** is somewhat slower in evaporation rate than **OP9003** and hence is more suitable for cleaning machines by wiping.

### PRODUCT USE

The articles to be stripped of cured resin may include finished electronic components or production equipment such as containers, tools, jigs etc. These should be soaked in **OP9003** in a closed container to prevent evaporation - alternatively, if open tanks are used a thin film of water can be used on top of the resin stripper to considerably retard evaporation. However, this should only be used as a short term measure. Such materials stored for long periods could give rise to slow hydrolysis leading to formation of acid by products.

The solvents in **OP9003** and **OP9004** will not generally damage metals but some plastic substrates may be attacked. It is always advisable to carry out test applications of **OP9003** or **OP9004** cautiously to ensure that the article which is to be recovered is not itself damaged.

**OP9003** evaporates very quickly in thin films and so tends to leave smear marks when wiped over dirty metal surfaces. **OP9004** evaporates rather more slowly and enables the surface to be polished clean more readily.

Surfaces which are heavily contaminated with thick deposits of cured resin may require soaking for prolonged periods of 24 hours or more. The cured resin will not dissolve in the stripper but will become soft and "cheesy" and will either fall away or can be very easily removed by brush or other tools.

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### HEALTH & SAFETY NOTES

**OP9003** and **OP9004** are essentially non-flammable and do not present the fire hazard that applies to most other solvents.

**OP9003** and **OP9004** contain low boiling materials and hence precautions are needed to prevent build up of high concentration in the atmosphere. Where anything other than small amounts are being used then the work area must be well ventilated. Keep the **OP9003** and **OP9004** in closed containers or cover with a layer of water to prevent evaporation.

High atmospheric concentrations can cause nausea, headaches and drowsiness. Moreover, the vapour can form more toxic materials in contact with naked flames, red hot metal, or when drawn through a cigarette. In the area where **OP9003** and **OP9004** are being used, smoking, welding and naked lights should be banned.

Repeated exposure to **OP9003** and **OP9004** can remove the natural grease from the skin causing irritation and cracking and possibly eventual dermatitis. Avoid skin contact.

Splashes in the eyes are extremely painful. Liquids are very mobile and therefore eye protection should be worn at all times when handling **OP9003** and **OP9004**. Take special care when opening closed containers as these may be slightly pressurised because of the high volatility of the materials. If eye contact does occur then wash thoroughly with water for at least 10 minutes and seek medical attention as soon as possible.

### STORAGE AND SHELF LIFE

The ideal storage for **OP9003** and **OP9004** is in sealed containers in a cool, dry area ( $15 \pm 10^{\circ}\text{C}$ ) away from direct sunlight. Material stored in this way will have a shelf life of at least 1 year.

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**COSHH REGULATIONS**

**OP9003** and **OP9004** contain methylene chloride (dichloromethane) which is assigned a maximum long-term exposure limit of 100 ppm (350 mg/m<sup>3</sup>) in Schedule 1 of the COSHH Regulations.

NATO Stock no (OP9004): 8010-99-808-6157

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