

LOCTITE MSC 01

October 2012

PRODUCT DESCRIPTION

LOCTITE MSC 01 provides the following product characteristics:

| | |
|--------------------|-------------------|
| Technology | Cleaner |
| Application | Pb-free soldering |

LOCTITE MSC 01 high performance cleaning solution is developed for solder paste cleaning processes. This material can be used manually or with an automatic stencil underside wiper.

FEATURES AND BENEFITS

- Reduced VOC
- Fast evaporating
- High solvency
- No oily residues
- Low environmental impact

LOCTITE MSC 01 can be used for manual cleaning of reworked circuit assemblies.

| | |
|-----------------------------------|-------------|
| Screen/stencil cleaning equipment | Recommended |
| Printer automatic wipe system | Suitable |
| Manual cleaning operation | Suitable |
| Rework | Suitable |

TYPICAL PROPERTIES

LOCTITE MSC 01 are based on user-friendly oxygenated organic chemistries. Each product is designed with slightly different properties to suit a particular application.

Cleaner Typical Properties

| | |
|---------------------------------|---------------------|
| Relative Density | 0.896 |
| Flashpoint, °C | 40 |
| Evaporation (Butyl Acetate=100) | 46 |
| Appearance | Clear and colorless |
| Odor | Characteristic |
| Water solubility | Miscible |

DIRECTIONS FOR USE

These materials clean by dissolution of the organic media present in the paste and, as such, will dissolve a wide variety of organic materials. Check compatibility of the cleaner with all encountered materials before use. The following table provides compatibility guidelines.

LOCTITE MSC 01 will remove paint from the following surfaces.

| | |
|---------------------------------|--------------------|
| Acrylonitrile butadiene styrene | Good compatibility |
| Butyl rubber | Good compatibility |
| Epoxy adhesives | Good compatibility |
| Fiducial epoxies | Good compatibility |
| Natural rubber | Good compatibility |
| Nitrile rubber | Good compatibility |
| Nylon | Good compatibility |
| P.U. squeegee | Good compatibility |
| Polycarbonate | Good compatibility |
| Polyethylene | Good compatibility |
| Polypropylene | Good compatibility |
| Polytetrafluoroethylene | Good compatibility |
| PTFE squeegee | Good compatibility |
| SBR rubber | Good compatibility |
| EPDM rubber | Do not use |
| Polymethylmeth acrylate | Do not use |
| Polystyrene | Do not use |
| PVC | Do not use |
| Silicone rubber | Do not use |

ENVIRONMENTAL

All materials used in this product has low environmental impact. They are biodegradable and unlikely to bioaccumulate. The water hazard classification under the German WGK is class 1 for all components, while the TA luft air class is III, the lowest category. Biodegradability as % of THOD is 84% in 28 days.

PACKAGING

Containers: LOCTITE MSC 01 is supplied in:

- 500 ml trigger spray packs
- 11, 51 and 251 polythene containers

Other packaging types may be available on request; please contact your local technical service helpdesk for assistance.

Shelf Life:

The stable formulation and components of LOCTITE MSC 01 ensure a minimum shelf life of 365 days in an unopened container.

DATA RANGES

The data contained herein may be reported as a typical value and/or a range. Values are based on actual test data and are verified on a periodic basis.

GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

Not for Product Specifications

The technical information contained herein is intended for reference only. Please contact Henkel Technologies Technical Service for assistance and recommendations on specifications for this product.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

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