

# Matt Lead

## MSN 10-1

IMDS ID No. 10627548

Matt Lead MSN 10-1 is a multi-purpose, strong acidic and fluoride-free electrolyte for the deposition of smooth and dendrite-free coatings, even when thick layers  $\geq 200 \mu\text{m}$  are deposited. This is especially required for the manufacturing of accumulator components.

In the field of printed circuit board manufacturing Matt Lead MSN 10-1 is used for metal resist technique as well as for pre-plating with lead according to the SLOLON process.

The lead coatings deposited from Matt Lead MSN 10-1 are fine-crystalline and free of pores. If the lead coating is used as etching resist, a layer thickness of approximately 5 - 7  $\mu\text{m}$  lead is sufficient to avoid through-etching.

The lead coatings can be either removed in spraying plants using Stripper L 60 (Bath No. 01041), or in tank installations with Stripper L 80 (Bath No. 01045). Both strippers were especially developed for this technology. If the SLOLON process is applied, 1 - 3  $\mu\text{m}$  thick lead coatings must be deposited, followed by a 8 - 12  $\mu\text{m}$  thick tin/lead layer deposited from Tin Lead SLOTOLET K 10-1 (Bath No. 11201).

Matt Lead MSN 10-1 is an economic bath and is operated with one additive only. During idle periods there is no chemical decomposition of Lead Additive MSN 12-1, consumption is mainly due to drag-out losses. The additive may be determined analytically.

The information in this data sheet is based on laboratory as well as practical experience. Figures quoted for operating limits and replenishment quantities are for guidance. Actual values necessary will depend on the components being plated (material and geometry), their application and plating plant conditions.

### Important:

Please read these instructions carefully and follow recommendations given.

We reserve the right to make technical changes as necessary.

In the interests of safety, please pay attention to the R- and S- phrases on the drum label.

The shelf life of the additives is generally 18 months.

The date of production is taken from the first 3 figures of the batch number.

Figure 1 = year; figures 2-3 = month; figures 4-7 = batch number; (UK labels use a 4 digit year code).

For the storage of chemical products only the TRGS 514 and TRGS 515 Regulations must be followed. The Hazardous Goods Regulation (ADR/GGVS) are only valid for transportation and must not be applied to storage.

