

**BONDERITE M-AD 4977 B**

Known as Additive 4977 B

June 2017

**PRODUCT DESCRIPTION**

BONDERITE M-AD 4977 B provides the following product characteristics:

<b>Technology</b>	Metal Pretreatment
<b>Product Type</b>	Additive
<b>Application</b>	pH adjustment

BONDERITE M-AD 4977 B is a liquid product to correct/increase the pH-value in Prepalene X-baths.

**Composition:**

Inorganic salts  
Water

**TECHNICAL DATA**

Appearance: clear to yellow liquid  
pH: alkaline  
Density: ~1.4 g/cm<sup>3</sup>

**DIRECTIONS FOR USE****Preliminary statement:**

Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

**Application:**

BONDERITE M-AD 4977 B must be added in small portions (e.g. 0.13 kg= 0.09 L per 1,000 L bath).

The pH-value has to be checked after each addition and thorough mixing.

**Waste Water Treatment:**

Waste water neutralization, if needed. The waste water treatment must meet the requirements of the local water authorities.

**Storage:**

Recommended Storage Temperature 0 to 50°C  
Shelf-life, months 36  
(in unopened original packaging)

**Classification:**

Please refer to the corresponding **Material Safety Data Sheets** for details on:

**Hazards identification**  
**Transport information**  
**Regulatory information**

**ADDITIONAL INFORMATION****Disclaimer****Note:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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