PRODUCT DATA SHEET

# AMBERLITE™ MB9L

## Industrial Grade Non-Regenerable Mixed Bed Resin

AMBERLITE MB9L resin is a homogeneous mixture of a strongly acidic cation exchanger in the $H^+$ form with a strongly basic anion exchanger in the $OH^-$ form. It is mainly characterised by a high cationic exchange capacity. AMBERLITE MB9L resin contains no dye indicator to show exhaustion of the resin and a conductivity meter is needed to monitor the treated water quality and the exhaustion endpoint.

AMBERLITE MB9L resin is specifically designed for the partial demineralisation of water when the ratio of alkalinity to free mineral acidity is higher than 1, where complete removal of the cations and of the acidity is essentially required without the need to fully eliminate $CO_2$ and silica.

## PROPERTIES

| | |
|---|---|
| Composition in volume[1] | Cation component : 46 to 55 %<br>Anion component : 54 to 45 % |
| Ionic form as shipped | $H^+$ / $OH^-$ |
| Shipping weight | 745 g/L |
| < 0.300 mm [1] | 5.0 max |

[1] *Contractual value*

*Test methods are available on request.*

## SUGGESTED OPERATING CONDITIONS

| | |
|---|---|
| Maximum operating temperature | 60°C |
| Minimum bed depth | 700 mm |
| Service flow rate | 20 to 40 BV*/h |

** 1 BV (Bed Volume) = 1 m3 solution per m3 resin*

## LIMITS OF USE

AMBERLITE MB9L resin is suitable for industrial uses. For all other specific applications such as pharmaceutical, food processing or potable water applications, it is recommended that all potential users seek advice from Rohm and Haas in order to determine the best resin choice and optimum operating conditions.

All our products are manufactured in ISO 9001 certified facilities.

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ROHM AND HAAS



Ion exchange resins and polymeric adsorbents, as produced, contain by-products resulting from the manufacturing process. The user must determine the extent to which organic by-products must be removed for any particular use and establish techniques to assure that the appropriate level of purity is achieved for that use. The user must ensure compliance with all prudent safety standards and regulatory requirements governing the application. Except where specifically otherwise stated, Rohm and Haas Company does not recommend its ion exchange resins or polymeric adsorbents, as supplied, as being suitable or appropriately pure for any particular use. Consult your Rohm and Haas technical representative for further information. Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Nitric acid and other strong oxidising agents can cause explosive type reactions when mixed with Ion Exchange resins. Proper design of process equipment to prevent rapid buildup of pressure is necessary if use of an oxidising agent such as nitric acid is contemplated. Before using strong oxidising agents in contact with Ion Exchange Resins, consult sources knowledgeable in the handling of these materials.