

Lithene *ultra* N4-5000-10MA is a viscous, low molecular weight, liquid polybutadiene. The polymer is very low in odour and volatiles and is produced from a narrow molecular weight polybutadiene base, adducted with 10 parts maleic anhydride.

For further information regarding this product please refer to:

Malcolm McInnes

Phone: +44(0)1279 436211

eMail: Malcolm.McInnes@synthomer.com

#### TYPICAL APPLICATIONS:

Soft, isocyanate free, electrical encapsulants

Rubber to metal bonding

Lithene *ultra* N4-5000-10MA is despatched from our UK production plant>

| Property                    | Typical Value                | Unit     | Method <sup>1</sup> |
|-----------------------------|------------------------------|----------|---------------------|
| Viscosity @ 25°C            | 250 - 500                    | dPa.s    | LTM01               |
| Total acid                  | 49 - 59                      | mg KOH/g | LTM54               |
| Residual maleic anhydride   | 0.05 max                     | %        | LTM52               |
| Non volatile content        | >99.8                        | %        | LTM51               |
| Typical molecular weight Mn | 5200                         | Da       |                     |
| Appearance                  | Clear, golden viscous liquid |          |                     |

<sup>1</sup> internal method based upon the specified norm

## Application Advice

Handling - Lithene *ultra* N4-5000-10MA is a viscous, liquid polymer. The viscosity of the product will decrease rapidly with increased temperature and the product may require gentle heating to improve flow and handling.

Compatibility - Liquid polybutadienes are generally compatible with most aliphatic and aromatic hydrocarbon solvents. They have limited solubility in alcohols, ketones and esters. Further details are available on request.

Lithene *ultra* N4-5000-10MA when formulated with an appropriate amine cross-linker or reactive polyol, can form the basis of an isocyanate free soft gel encapsulant. The resultant gel has excellent electrical resistance and physical properties even at very low temperatures. Lithene *ultra* N4-5000-10MA is very low in odour and has a low volatile content.

## Shipping and Storage

Lithene *ultra* N4-5000-10MA should be stored in cool, dry conditions below +30°C (+86°F). If stored in the original sealed packaging the product has a shelf life of at least 12 months from date of delivery. Product which has been stored for longer than 12 months should be tested before use. Containers which have been opened should be purged with dry nitrogen before resealing to protect the remaining product from oxidative skinning and hydrolysis. Further information is available on the datasheet Storage of Lithene Liquid Polybutadienes. Lithene *ultra* N4-5000-10MA is packed in open top 200 litre steel drums containing 188kg or 1000 litre IBC containing 940kg. The minimum order quantity is one pallet (four drums).

## Product Safety

Before handling, please read the Safety Data Sheet of this product for advice on safety, use and disposal.