



Lupranate[®] MM103

Modified MDI

Lupranate MM103 is a liquid carbodiimide modified 4,4'-diphenylmethane diisocyanate. Lupranate MM103 serves as the isocyanate component in the production of microcellular urethane elastomers. This product also may be used in combination with high molecular weight polyether polyols for the preparation of high grade flexible, semi-flexible and integral skin foam. It is also used in the preparation of prepolymers for elastomer, sealant, adhesive and coating applications.

TYPICAL PROPERTIES

Appearance	light yellow liquid
NCO content, wt.%	29.5
Viscosity @ 25°C, cps	40
Hydrolyzable chlorine, ppm	< 300
Flash point, °C (COC)	199
Density @25°C, g/cm³	1.22
Initial boiling point, 5mm Hg, °C	190
Vapor Pressure @25°C, mm Hg	< 0.00001

Storage

Lupranate MM103 isocyanate is supplied in tank trucks, or drums. Protect against moisture. The most favorable temperature for long-term storage is 21-27°C (70-80°F). If stored at higher temperatures, or if moisture is not excluded, an undesirable increase in viscosity will occur. Material can be stored for short-term at 16-27°C (60-80°F), but long-term it is ideal to keep material above 20°C (68°F) to avoid solid crystal formation. The solid crystals contain pure MDI and in this solid form may exhibit the same dimerization characteristics as pure MDI.

Warning

Excessive heating or prolonged heating at 80-100°C may cause dangerous pressure build-up. Heating by electrical means is not recommended due to the danger of local overheating, which would result in dimer formation. Melting in a water bath is not recommended because of the potential danger of the isocyanate reacting with water in case of drum leakage. Rolling the drum in atmospheric steam is an alternate procedure that can be used provided care is taken to ensure that the drum does not leak. The shelf life of Lupranate MM103 Isocyanate is six months if the temperature is maintained at 21-27°C (70-80°F) and moisture is excluded.

In case of chemical emergency:

Call CHEMTREC 800-424-9300 or BASF (800-832-HELP) day or night for assistance and information concerning spilled material, fire, exposure and other chemical accidents. Outside the U.S., call (703) 527-3887.

Attention:

This product is sold solely for use by industrial institutions. Refer to our Safety Data Sheet (SDS) regarding regulatory compliance, safety, hazards, spill procedures and disposal of this product. An SDS as well as additional information on BASF urethane chemicals may be obtained by telephoning BASF Corporation, Urethane Customer Service at (877) 297-3322 or faxing (734) 324-6866.

Important:

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE.

Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by BASF hereunder are provided gratis and BASF assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.

© BASF Corporation, 2024



BASF Corporation is fully committed to the Responsible Care® initiative in the USA, Canada, and Mexico.

For more information on Responsible Care® go to:

U.S.: www.basf.us/responsiblecare_usa

Canada: www.basf.us/responsiblecare_canada

México: www.basf.us/responsiblecare_mexico

BASF Corporation

1609 Biddle Avenue

Wyandotte, MI 48192

Phone: (734) 324-6100

<https://polyurethanes.basf.us/>