



# Lupranate<sup>®</sup> MI BMBcert<sup>™</sup> M1 Isocyanate

2,4' Diphenylmethane Diisocyanate  
ISCC PLUS and RedCert<sup>2</sup> certified



*Mass balanced products support and accelerate the substitution of virgin/fossil feedstock with alternative feedstock. BMB products offer the same chemical properties as their conventional equivalents but contribute to saving conventional resources and contribute to reducing CO<sub>2</sub> emissions.*

Lupranate MI BMBcert M1 Isocyanate is pure diphenylmethane diisocyanate containing a higher amount of 2,4' isomer than Lupranate M Isocyanate or Lupranate MS Isocyanate. Lupranate MI BMBcert M1 Isocyanate has a functionality of 2.0 and is liquid at room temperature. Lupranate MI BMBcert M1 isocyanate is used in the isocyanate component for the preparation of flexible, semi-flexible and microcellular urethane foams. Lupranate MI BMBcert M1 Isocyanate can also be used for the production of adhesives, coatings and sealants.

## TYPICAL PROPERTIES

Appearance .....	colorless to reddish yellow liquid
NCO content, wt.% .....	33.5
Freezing range, °C .....	10-15
Purity, wt.% .....	99.5
Hydrolyzable chlorine, ppm .....	< 40
Flash point, °C (COC) .....	199
Density @25°C, g/cm <sup>3</sup> .....	1.22
Initial boiling point, 5mm Hg, °C .....	190
Vapor Pressure @25°C, mm Hg .....	0.0003
2,4' Isomer, wt.% .....	50

### Storage

Lupranate MI BMBcert M1 Isocyanate is available in tank trucks or drums. Once a container has been opened, care should be taken to exclude moisture. Lupranate MI isocyanate should be stored at 23-30°C under nitrogen. Upon prolonged storage some turbidity and sediment may form due to dimerization. Through careful filtration these solids can be removed without adversely affecting the product quality. Below 15°C solid crystals may form and settle out which can alter the performance of the product. The solid crystals are monomeric MDI and in this solid form exhibit the dimerization characteristics of pure MDI. Unless prompt action is taken to melt the product, subsequent dimerization will proceed and may deteriorate the clarity and assay of the product. Melting the crystals is ideally done by rolling the drum in a hot air oven at 80-100°C. Melting under these conditions should take 4-8 hours. The drum contents should not be heated above 70°C to minimize dimer formation.

## Warning

Heating by electrical means is not recommended due to the danger of local overheating, which would result in dimer formation. Melting Lupranate MI BMBcert M1 Isocyanate in a water bath is not recommended because of 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 that care is taken to ensure that the drum does not leak. The shelf life of Lupranate MI BMBcert M1 Isocyanate is six months if the temperature is maintained at 23-30°C 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 visiting [polyurethanes.basf.us](http://polyurethanes.basf.us)

## Important

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