



Lupranate[®] 5310 Isocyanate

Lupranate 5310 Isocyanate is a low free-NCO prepolymer based on monomeric MDI, with a nominal functionality of 2.0. Lupranate 5310 Isocyanate can be used to formulate flexible one-component moisture cure coatings, sealants, adhesives, and binders. In addition, the low free-NCO of this prepolymer may help reduce shrinkage in cast elastomers and one-shot systems.

TYPICAL PROPERTIES

Appearance	light yellow liquid
NCO content, wt%	8.0
Viscosity @ 25°C, cps	2700
Flash point, °C (COC)	200
Density @25°C, g/cm ³	1.07
Initial boiling point, 5mm Hg, °C	190
Vapor Pressure @25°C, mm Hg	< 0.00001

Storage

Lupranate 5310 Isocyanate is supplied in totes or drums. Once a container has been opened, care should be taken to exclude moisture. The most favorable temperature for storage is 20-35°C. Below 15°C solid crystals may form and settle out, which can alter the performance of the product. Storage above 40 °C for extended periods of time can lead to an increased rate of uretdione (dimer) formation and a gradual increase in product viscosity, which can reduce the shelf life of the product. The shelf life of Lupranate 5310 Isocyanate is six months if the temperature is maintained at 20-35°C and moisture is excluded.

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.

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

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