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Technical Data Sheet

Lupranate® LP30

Lupranate® LP30 isocyanate is a solvent-free, modified pure diphenylmethane diisocyanate which is liquid at 30°C. It is designed to replace pure MDI in applications where it is desirable to use a product that can be stored as a liquid. It is used as a major starting material in applications such as prepolymers, elastomers, shoe soles, sealants and adhesives.

TYPICAL PROPERTIES

Appearance	pale yellow liquid
Viscosity @ 25°C, cps	16
Flash point, °C (COC)	200
Density @ 25°C, g/cm3	1.22
Initial boiling point, 5mm Hg, °C	190
Nominal functionality	2
Vapor Pressure @ 25°C, mm Hg	0.00001
NCO content, wt.%	33.0

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STORAGE

Lupranate® LP30 isocyanate is supplied in tank trucks or drums. Once a container has been opened, care should be taken to exclude moisture. The most favorable temperature for storage is 30-40°C. Below 30°C solid crystals may form and settle out which can alter the performance of the product. The solid crystals contain pure MDI and in this solid form may exhibit the same dimerization characteristics as monomeric 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. The drum contents should not be heated above 60°C to minimize dimer formation.

WARNING

Excessive heating or prolonged heating over 80°C may cause dangerous pressure build-up. Heating by electrical means is not recommended due to the danger of local overheating which could result in dimer formation. Melting in a water bath is likewise 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 care is taken to ensure that the drum does not leak. The shelf life of Lupranate® LP30 isocyanate is three months if the temperature is maintained at 30-40°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).