

## Lupranate<sup>®</sup> 5070 Isocyanate

Lupranate<sup>®</sup> 5070 Isocyanate is a low functional prepolymer based on pure MDI. Lupranate<sup>®</sup> 5070 isocyanate is favored in solid elastomers and microcellular foams where the formulator desires good abrasion resistance over a wide range of temperatures. The relatively low viscosity at room temperature can simplify the handling and preparation of one-shot cast elastomer such as wheels, rollers, and mats.

### TYPICAL PROPERTIES

Appearance	yellow liquid
NCO content, wt%	13.0
Viscosity @ 25°C, cps	3360
Flash point, °C (COC)	200
Density @ 25°C, g/cm <sup>3</sup>	1.20
Initial boiling point, 5mm Hg, °C	190
Nominal functionality	2
Vapor Pressure @ 25°C, mm Hg	0.00001



BASF Corporation is fully committed to the Responsible Care<sup>®</sup> initiative in the USA, Canada, and Mexico. For more information on Responsible Care<sup>®</sup> go to:

**U.S.:** [www.basf.us/responsiblecare\\_usa](http://www.basf.us/responsiblecare_usa)

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## STORAGE

Lupranate<sup>®</sup> 5070 Isocyanate is supplied in tank trucks and drums. Once a container has been opened, care should be taken to exclude moisture. The most favorable temperature for storage of this product is 25-35°C. If stored at higher temperatures, or if moisture is not excluded, an undesirable increase in viscosity will occur. Below 15°C 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 crystallization characteristics as 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 60 to 80°C. Drum contents should not be heated above 60°C to minimize dimer formation.

## WARNING

Excessive or prolonged heating at 60-80°C may cause dangerous pressure build-up. Heating by electrical tape is not recommended due to the danger of local over heating. Melting 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 providing care is taken to ensure that the drum does not leak. The shelf life of Lupranate<sup>®</sup> 5070 Isocyanate six months if the temperature is maintained at 25 to 35°C and moisture is excluded. These products can be used to prepare a variety of polyurethane products. Polyurethanes are organic materials and must be considered combustible.

## 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).

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**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).

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