Lupranate® M20S

Polymethylene Polyphenylpolyisocyanate

Technical Bulletin

August 2001

Lupranate® M20S is a polymeric MDI with a functionality of approximately 2.7. Lupranate M20S is suitable for the production of rigid insulation foams by molding, spraying, and frothing. It is also used for rigid and semi-flexible integral skin foams, adhesives, sealants, elastomers, and high-resiliency flexible foams. In low catalyzed rigid urethane formulations, the foam rise time can be lengthened by 20-30%. The slower reactivity can be advantageous in applications such as large rigid foam panels or molded flexible foams.

Typical Properties

Appearance	dark brown liquid
NCO content, wt. %	31.5
Viscosity @ 25°C, cps	200
Hydrolyzable chlorine, wt. %	0.035
Flash point, °C (COC)	200
Density @ 25°C, g/cm^3	1.23
Initial boiling point, 5 mm Hg, °C	190
Vapor pressure @ 25 °C, mm Hg	0.0002

Storage: Lupranate M20S is supplied in tank cars, tank trucks, and drums. Once a container has been opened, care should be taken to exclude moisture. The most favorable temperature for storage is 15-35°C. If stored at higher temperatures, or if moisture is not excluded, an undesirable increase in viscosity will occur. Below 15°C, the product becomes difficult to pump and pour. Below 0°C, crystallization may occur. The shelf life of Lupranate M20S is six months if the temperature is maintained at 15-35°C and moisture is excluded.

Warning: 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.

Attention: This product is sold solely for use by industrial institutions. Refer to our Material Safety Data Sheet (MSDS) regarding regulatory compliance, safety, hazards, spill procedures and disposal of this product. An MSDS 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.

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