

Product Data Sheet**SUPRASEC[®] 5025**

MDI (diphenyl methane diisocyanate)

PRODUCT DESCRIPTION

SUPRASEC[®] 5025 is a standard functional diphenyl methane diisocyanate (MDI).

TYPICAL PROPERTIES

Properties	Value	Unit	Method
Appearance	brownish clear liquid		
Density (25 °C)	1.23	g/cm ³	PU/SPG-1
Viscosity (25 °C)	220	mPa.s	PU/VIS-1
NCO value	30.75	%	PU/IV-1
Flash point	230	°C	ASTM D 92 DIN 51755 (Cleveland Open Cup)

HANDLING AND STORAGE

The storage life of SUPRASEC[®] 5025 is 6 months from arrival at the customer, when stored at 15 - 25 °C (59 - 77 °F) and if protected from humidity and contaminants, i.e. in properly sealed drums, cans, etc.. When stored at lower temperatures, the increasing viscosity of the product might make it difficult to ensure good mixing with the other component of the formulation during the production process. Should it even be necessary to melt out SUPRASEC[®] 5025 due to crystallisation of the product, melting procedures can be provided on request (only for packed products). Storage at temperatures above 50°C is not recommended, since this can lead to the formation of insoluble solids and also the viscosity build-up increases on extended storage. SUPRASEC[®] 5025 is best stored under an atmosphere of dry air or nitrogen. These stated conditions are only ment for storage purposes. Please note that temperatures and conditions during transport may vary from these mentioned values. These deviations during transport are normally short term effects and should not affect the quality of the product. If quality effects are suspected an appropriate transport mode can be foreseen.

ENVIRONMENT, HEALTH AND SAFETY

The safety and health information in this bulletin is summarized and does not contain sufficient details for safe handling in all cases. For detailed safety and health information, please look up the Material Safety Data Sheet, which is available on request.

During handling, the product must be protected from water ingress and from atmospheric moisture. Containers should be re-sealed immediately after each sampling. The reaction of isocyanates with water leads to the formation of insoluble urea's and carbon dioxide gas, which can lead to pressure build-up in closed containers. Containers used for SUPRASEC[®] 5025 must therefore be absolutely dry. The precautions necessary when handling SUPRASEC[®]

5025 i.e., MDI, and the decontamination procedures recommended to be used in case of spillage are described fully in the publication PU 193-1E MDI-based compositions : Hazards and safe-handling procedures (available in different languages). It is recommended to read this document before use.

For further information, please contact your nearest sales office: http://www.huntsman.com/PU_customer_service

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