

**Product data****Suprasec 2020**

isocyanate

**Typical properties**

Product	Suprasec 2020
Appearance	Clear to yellow liquid
Density, g/cm <sup>3</sup> at 25°C	1.22
Viscosity, mPa s at 25°C	40
Isocyanate (NCO) value, % corrected for hydrolysable chlorine	29.45
Ionisable chlorine, ppm	< 65
Flash Point, °C Cleveland Cup, ASTM method D92	> 100
Fire point, °C Cleveland Cup, ASTM method D92	213

**Introduction**

Suprasec® 2020 is a uretonimine-modified diphenyl methane diisocyanate (MDI).

**Application**

For information on this product, please contact us at [ACE@huntsman.com](mailto:ACE@huntsman.com); Other contact information is given on the second page.

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**Storage and Handling Recommendations**

Containers of Suprasec 2020 should be kept properly closed and stored indoors in a well-ventilated area under normal factory conditions. Storage at temperatures ranging from 20 - 30 °C provides a convenient viscosity for handling. Storage at low temperature is not recommended because it may lead to some crystallisation; this material must therefore be protected from frost. If under abnormal storage conditions some crystallisation does occur, the material should be melted according to the procedures given in the publication PU 181-15E. 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.

Under the recommended storage conditions and if protected from humidity and contaminants, i.e. in properly sealed drums, cans, etc., Suprasec 2020 has a provisional storage life of 3 months at the customer. In case of storage in bulk containers, please contact our Sales Representative for further details. Detailed information on how to obtain optimum bulk storage conditions, is available in the ISOPA document Guidelines for Safe Loading/Unloading, Transportation & Storage of TDI and MDI.

Reaction with atmospheric moisture, is prevented by storing Suprasec 2020 in carefully sealed containers under a dry air atmosphere. 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 ureas and carbon dioxide gas, which can lead to pressure build-up in closed containers. Containers used for Suprasec 2020 must therefore be absolutely dry.

The precautions necessary when handling Suprasec 2020, 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. Should it prove necessary to melt Suprasec 2020, procedures are given in the publication PU 181-15E; Recommended melting procedures for MDI-based isocyanates.

Enquiries should be addressed to the nearest Huntsman Sales Office or to:  
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**Health and Safety Advice**

The appropriate health and safety advice can be found in the safety data sheet for Suprasec 2020 available on request. The applicable Safety Data Sheet should be reviewed by customer before handling the Huntsman product.

All users of Suprasec 2020 are advised to read the publication PU 193-1E; MDI-based compositions: Hazards and safe-handling procedures.