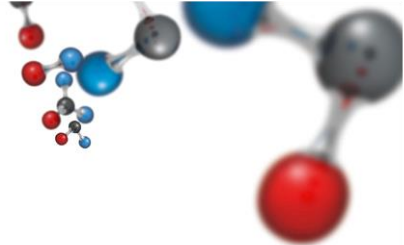


# TECHNICAL DATA SHEET (TDS)

## ONGRONAT® FB 5550



- **Product description:** ONGRONAT® FB 5550 is a mixture of 4,4'-methylene diphenyl diisocyanate, carbodiimide modified MDI, polymeric MDI and a polyether polyol-based prepolymer
- **Appearance:** Solvent-free, brownish, low viscosity liquid at room temperature
- **Industry:** Furniture, Bedding & Decoration
- **Applications:** Office and medical furniture

### SPECIFICATIONS

Property	Value	Dimension	Test Method
NCO	26.3 - 28.3	wt%	ASTM D5155
Viscosity (at 25°C)	140 - 220	mPa.s	ASTM D4889

### OTHER PROPERTIES\*

Property	Value	Dimension
Density (at 25°C)	1.21	g/cm <sup>3</sup>
Flash point	>200	°C

\*Parameters given in the other property range are only typical values; therefore they are not part of the specification.

### PACKING, STORAGE & TRANSPORT

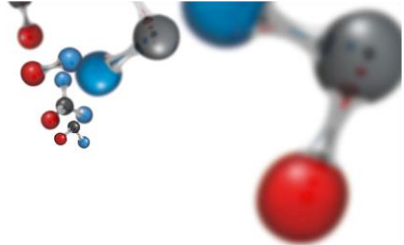
Transport and packing: ONGRONAT® FB 5550 can be loaded and transported in tank road tankers, 225 kg non-returnable metal drums under nitrogen blanket. The loading temperature is 40-45 °C in bulk and 20-30 °C in the case of drummed product or in intermediate bulk containers (IBCs). Please note that based on the distance of the destination the delivery temperature may differ from the loading temperature, but still remains in the range of 15-40 °C in the case of bulk product. When transporting ONGRONAT® FB 5550 in drums or IBCs the temperature must be kept in the range of 15-30 °C, therefore the exposure of the containers (drums or IBCs) to cold shocks or prolonged effect of intensive sunlight must be avoided. ONGRONAT® FB 5550 is shipped according to the above mentioned delivery temperature ranges in the lack of any special requirement.

Storage: Normal processing temperature of ONGRONAT® FB 5550 is between 20-25 °C. It is recommended to store the product within this temperature range. Under these conditions the quality will be maintained for max. six (6) months from the date of production. The material can also be stored within the temperature range of 15-30 °C without affecting its quality significantly. During storage below 15 °C the quality of ONGRONAT® FB 5550 can deteriorate, because of the partial crystallisation of its 4,4'-methylene diphenyl diisocyanate content. The product can be liquefied again by heating it up to

70°C as rapidly as possible in a controlled way. During this remelting procedure sediment can be generated. If the product is not consumed immediately after re-melting, it is necessary to ensure storage at the recommended temperature. Storage at a temperature above 30 °C is not recommended since discolouration and formation of insoluble solids (dimerisation) may occur which can lead to a viscosity increase and a decrease of NCO content. Above 150 °C a slow, exothermic decomposition reaction takes place which becomes extremely fast above 250 °C, so care must be taken to avoid this thermic effect. The material must be kept dry at all times; therefore it must be protected from water ingress and atmospheric moisture. In order to protect the material from atmospheric moisture a dry inert gas blanket (nitrogen) with a dew point of -40 °C must be used for any type of containers (drums or storage tanks). Dry air is not recommended for this purpose because it could cause oxidation and due to this, the colour of the product may become darker. Carbon dioxide (CO<sub>2</sub>) is soluble in isocyanates, therefore it is not recommended to be used as inert gas either.

# TECHNICAL DATA SHEET (TDS)

## ONGRONAT® FB 5550



### SAFETY PRECAUTIONS

Handle the material with care. Avoid contact with water and moisture. Reaction with water always results formation of CO<sub>2</sub>

and therefore increase of pressure in the closed storage container. Avoid contact with skin and eyes. Do not inhale the vapours of the product. Detailed safety information available on the [www.borsodchem-group.com](http://www.borsodchem-group.com) website and in the specific Material Safety Data Sheet.

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ONGRONAT® FB 5550

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