



ONGRONAT® ISOCYANATES

ONGRONAT® 2500

TECHNICAL DATA SHEET

Product

ONGRONAT® 2500 a mixture of 4,4'-methylenediphenyldiisocyanate and homologues.

Appearance

ONGRONAT® 2500 is a solvent free dark-brown low viscosity liquid at room temperature.

Application area

ONGRONAT® 2500 is a special type of polymeric MDI well suited for the manufacture of rigid insulating PIR foams. It can also be used for semi-rigid integral skin, structural foams and adhesives.

Typical property range

NCO content	: 30.0 - 32.0	wt%	ASTM D5155
Viscosity (at 25 °C)	: 520 - 680	mPa.s	ASTM D4889
Acidity as HCl	: max. 0.05	wt%	BorsodChem method PAK 11

Other physical properties

Density (at 25 °C)	: 1.23	g/cm ³
Flash point	: >200	°C

Transport and packaging

In road tankers, 1000 l containers, 250 kg non-returnable metal drums, or in metal cans under nitrogen blanket.

Storage

Normal processing temperature is between 20-25 °C.

It is recommended to store ONGRONAT® 2500 within this temperature range, under these conditions the quality will be maintained for max. six months.

The material can also be stored within the temperature range of 10-30 °C without affecting its quality.

If product is not used up immediately after re-melting, it is necessary to arrange for storing it at the recommended temperature. During transportation temperature must be kept above 10 °C. During storage below 10 °C the quality of ONGRONAT® 2500 can deteriorate, because the 4,4'-methylenediphenyldiisocyanate can partly crystallize. The product can be liquefied again by cautiously heating it up (up to 70 °C) as rapidly as possible, but during this re-melting procedure sediment may be generated.



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Storage at a temperature above 30 °C is not recommended since discolouration and formation of insoluble solids (dimerization) 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 such a thermic effect.

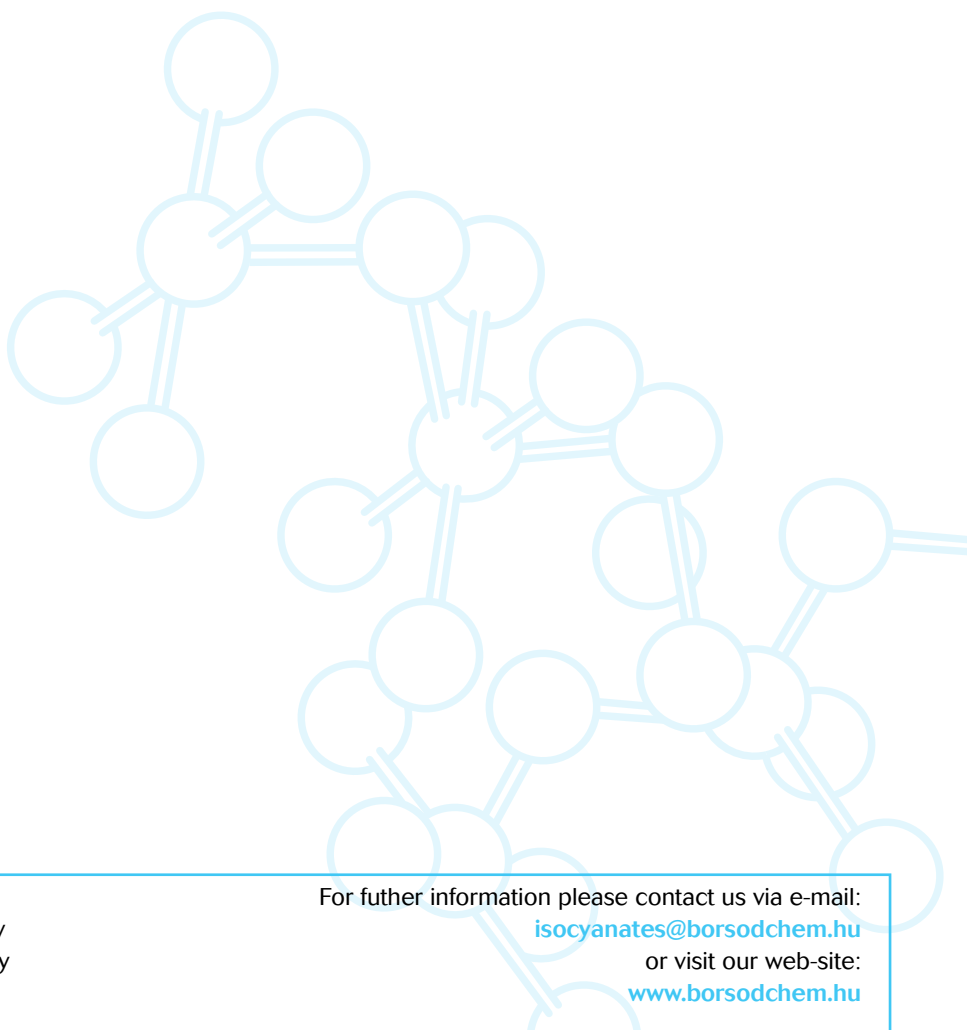
The material must be kept dry at all times; therefore it must be protected from water ingress and atmospheric moisture. In order to protect the material from atmospheric moisture a dry inert gas blanket (nitrogen) with a dew point of -40 °C must be applied into the containers (drums or storage tanks). Dry air is not recommended for this purpose because it could cause oxidation and due to this, the colour of the product can become darker.

Safety precautions

All activities related to isocyanate handling are potential sources of danger; therefore special care must be taken when working with it.

Handle the material with care. Avoid contact with water and damp. Avoid contact with skin and eyes. Do not inhale the vapours of the product.

Detailed safety information available in the specific Material Safety Data Sheet.



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