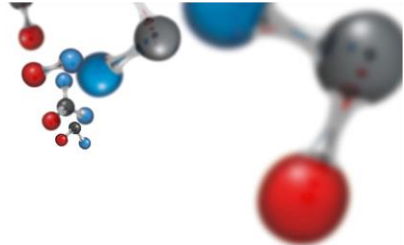


# TECHNICAL DATA SHEET (TDS)

## ONGRONAT® CO 2170



- **Product description:** ONGRONAT® CO 2170 is a type of polymeric MDI with elevated acidity and average functionality of 2.6 - 2.7
- **Appearance:** Solvent free dark-brown low viscosity liquid at room temperature
- **Industry:** Construction
- **Applications:** ONGRONAT® CO 2170 is suitable for the formulation of 2K polyurethane adhesives and resins with decreased curing speed

### SPECIFICATIONS

Property	Value	Dimension	Test Method
NCO	30.0 - 32.0	wt%	BorsodChem Method PAK 155
Viscosity (at 25 °C)	170 - 230	mPa.s	ASTM D4889
Acidity	160 – 240	ppm	BorsodChem Method PAK 126

### OTHER PROPERTIES\*

Property	Value	Dimension
Density (at 25 °C)	1.23	g/cm <sup>3</sup>
Flash point	>200	°C
Vapour pressure (at 25°C)	<10 <sup>-5</sup>	mbar

\*Values given in the "other properties" section are only typical ones, therefore they are not to be considered as part of the specification.

### PACKING, STORAGE & TRANSPORT

Transport and packing: ONGRONAT® CO 2170 can be loaded and transported in road tankers, 1000 l containers, 250 kg non-returnable metal drums, or in metal cans 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 20 - 45 °C delivering the product in bulk. In bulk, ONGRONAT® CO 2170 is shipped according to the above mentioned delivery temperature range in the lack of any special requirement.

Storage: It is recommended to store the product within the temperature range of 10 – 30 °C. Under these conditions the quality will be maintained for max. six (6) months from the date of production. Storing the product in drums or IBCs care must be taken to avoid cold shocks or overheating. The material must be kept dry at all times; it must be protected

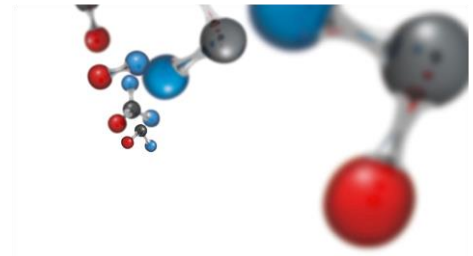
from water ingress and atmospheric moisture. In order to protect the material from atmospheric moisture a dry inert gas blanket (nitrogen) with a dew point of max. -40 °C must be applied for the containers (drums, IBCs or storage tanks). Dry air is not recommended for this purpose because it causes undesirable oxidation and due to this the colour of the product may become darker. It is not recommended to use carbon dioxide (CO<sub>2</sub>) as an inert gas either, since it is soluble in isocyanates.

### 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 Safety Data Sheet.

# TECHNICAL DATA SHEET (TDS)

## ONGRONAT® CO 2170



Version: English  
Date: 17.09.2018  
Technical Data Sheet (TDS)  
ONGRONAT® CO 2170

---

[www.borsodchem-group.com](http://www.borsodchem-group.com)

This information is based on our most recent knowledge. However, the application and processing of the material after sale is beyond our control and we cannot assume responsibility for use of this material outside BorsodChem premises. The user is obliged to check the suitability of this material for the intended use and accepts sole responsibility for compliance with any legal requirements relating to its use. This document does not constitute a warranty or guarantee.

**Manufactured by:**

**BorsodChem Zrt.**  
Bolyai tér 1  
H-3700, Kazincbarcika  
HUNGARY  
Phone: +36-48-511-211  
Fax: +36-48-511-511

