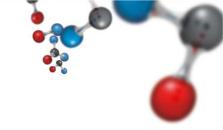
# **TECHNICAL DATA SHEET (TDS)**

### **ONGRONAT® 2100**



- Product description: ONGRONAT® 2100 is polymeric MDI with average functionality of 2.6 2.7.
- Appearance: Solvent free dark-brown low viscosity liquid at room temperature
- Industry: Construction; Transport; Appliances; Wood; Furniture, Bedding & Decoration
- Applications: ONGRONAT® 2100 is an isocyanate component suitable for the production of rigid polyurethane foams for many end
  applications including insulated boards; blocks and panels, spray and pipe insulation, cold stores; wood imitation; insulation of
  refrigeration trucks and trailers, refrigerators, freezers; water heaters and commercial display units. The product is also used for
  the production of one component foams (OCF); adhesives & binders; coatings and sealants. ONGRONAT® 2100 can also be
  applied as binder during the production of MDF & HDF boards.

#### **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	max. 300	ppm	BorsodChem Method PAK 126

#### OTHER PROPERTIES\*

Property	Value	Dimension
Density (at 25 °C)	1.23	g/cm³
Flash point	>200	°C
Vapour pressure	<10 <sup>-5</sup>	mbar

<sup>\*</sup>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® 2100 can be loaded and transported in road tankers, 1000 I containers, 250 kg non-returnable metal drums, or in metal cans under nitrogen blanket. The loading temperature is 40-45 °C in bulk. 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® 2100 is shipped according to the above mentioned delivery temperature range in the lack of any special requirement.

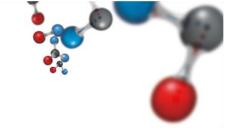
Storage: It is recommended to store the product in the temperature range of  $10-30\,^{\circ}\text{C}$ . Under these conditions the quality will be maintained for max. twelve (12) months from the date of production. Storing the product in drums or IBCs care must be taken to avoid cold shocks or overheating. (For instance overheating may be caused by the exposure of the drums or IBCs to intensive sunlight.) 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  $^{\circ}$ C must be applied into 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  $[CO_2]$  as an inert gas either, since it is soluble in isocyanates.



# TECHNICAL DATA SHEET (TDS)

## **ONGRONAT® 2100**



#### **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 website and in the specific Safety Data Sheet.

Version: English Date: 17.09.2018 Technical Data Sheet (TDS) ONGRONAT® 2100

#### 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.

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