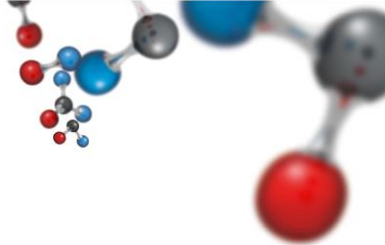


# TECHNICAL DATA SHEET (TDS)

## ONGRONAT® 1080



- **Product description:** ONGRONAT® 1080 is a mixture of m-tolylidene diisocyanate isomers: 4-methyl-m-phenylene diisocyanate and 2-methyl-m-phenylene diisocyanate in a nominal ratio of 4.
- **Appearance:** Water clear liquid at room temperature
- **Features & Benefits of the end products produced using ONGRONAT® 1080:** Comfort & support, Excellent adhesion, Silence, Durability, High gloss
- **Industry:** Construction; Furniture, Bedding & Decoration; Transport; Wood
- **Applications:** Adhesives & binders; coatings and sealants, mattresses & pillows; office & medical furniture; paints & coatings; seating, headrests & armrests; paints & coating

### SPECIFICATIONS

Property	Value	Dimension	Test Method
Purity	min. 99.5	wt%	BorsodChem Method TVM - 380
2,4 isomer content	79.0 – 81.0	wt%	BorsodChem Method TVM - 340
Acidity [as HCl]	max. 15	ppm	BorsodChem Method TVM-337-3
Hydrolysable Chlorine [Cl]	max. 50	ppm	BorsodChem Method TVM-337-4

### OTHER PROPERTIES\*

Property	Value	Dimension
Total Chlorine content	max 300	ppm
Colour	max. 15	APHA
Solidification Temperature	12 - 14	°C
Density [at 25 °C]	1.21	g/cm <sup>3</sup>
Viscosity [at 25 °C, dynamic]	3	mPa.s

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

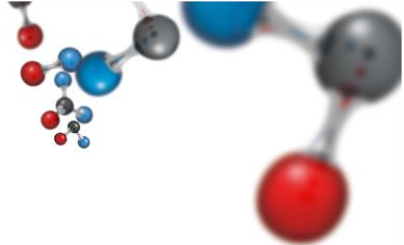
### PACKING, STORAGE & TRANSPORT

Transport and packing: ONGRONAT® 1080 is delivered in mobile tanks, road tankers or in 250 kg non returnable metal drums under nitrogen blanket. ONGRONAT® 1080 is loaded in the temperature range of 20 – 26 °C or 32 – 36 °C in case of bulk delivery and in the temperature range of 30 – 36 °C for drummed delivery. 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 – 40 °C for bulk product. For intermodal delivery the above delivery temperature can not be warranted. Because of the length of storage and the transit times the delivery temperature can not be warranted for drummed product either. ONGRONAT® 1080 is delivered according to the above mentioned delivery temperature range in the lack of any special requirement. Recommended storage temperature of ONGRONAT® 1080 is 20 - 40 °C. To avoid chemical reaction with water, contact with

atmospheric humidity should be prevented. Since atmospheric oxygen may cause discoloration, application of nitrogen blanketing in the storage tank is recommended. CO<sub>2</sub> is not recommended to be used as an inert gas, since it dissolves well in isocyanates. During the loading and the storage of the drummed products the instructions of ADR, RID, IMDG and the recommendations of ISOPA have to be strictly observed. In case of delivery in drums the colour cannot be warranted! If ONGRONAT® 1080 isomer mixture is cooled below its advised storage temperature the fractionated crystallization of its 2,4 TDI-isomer content happens first resulting in a compositional change of the liquid phase. Warming up the solidified product needs to be made with care under intensive continuous agitation. Quality features of re-heated ONGRONAT® 1080 do not change. During the remelting procedure discoloration may occur after prolonged effect of high temperature.

# TECHNICAL DATA SHEET (TDS)

## ONGRONAT® 1080



Besides the strict observation of the above information the product preserves its quality for a period of 12 months from the date of its production.

### 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.

Version: English  
Date: 18.11.2020  
Technical Data Sheet (TDS)  
ONGRONAT® 1080

[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.

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