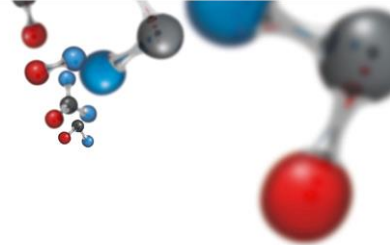


# PROVISIONAL TECHNICAL DATA SHEET (TDS)

## ONGRONAT® XP 1136



- **Product Description:** ONGRONAT® XP 1136 is a mixture of MDI mixed isomers and oligomeric MDI.
- **Appearance:** Solvent free, brown, low viscosity liquid at room temperature.
- **Applications:** ONGRONAT® XP 1136 is a liquid MDI composition designed to be used in the production of viscoelastic and HR foams.

### SPECIFICATIONS\*

Property	Value	Dimension	Test method
NCO	31.4 – 33.4	wt%	BorsodChem Method PAK 155
Viscosity [at 25 °C]	15 - 45	mPa.s	ASTM D 4889

### OTHER PROPERTIES\*

Property	Value	Dimension
Density [at 25 °C]	1.22	g/cm <sup>3</sup>
Flash point	>200	°C

\*Values given above are only typical ones, and we reserve the right of modification for these.

### PACKING, STORAGE & TRANSPORT

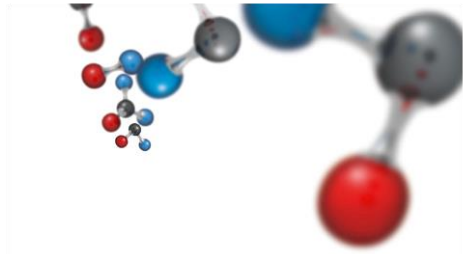
Transport and packing: ONGRONAT® XP 1136 can be packed and transported in road tankers, 1000 l containers (IBCs), 250 kg non-returnable metal drums, or in metal cans under nitrogen blanket. The loading temperature is 40 – 45 °C. Please note that based on the distance of the destination the delivery temperature may differ from the loading temperature, but still remains in the range of 20 – 45°C delivering the product in bulk. In case of shipping by normal truck (in drums or IBCs) the delivery temperature can not be warranted. Transporting ONGRONAT® XP 1136 by the means of thermo trucks in drums or IBCs the temperature must be kept in the range of 20 – 30 °C. Therefore the exposure of the containers to cold shocks and intensive sunlight must be avoided. ONGRONAT® XP 1136 is shipped according to the above temperature ranges in the lack of any special requirement.

Storage: Normal processing temperature is between 20-25 °C. It is recommended to store ONGRONAT® XP 1136 within this temperature range. The material can also be stored within the temperature range of 15-30 °C without affecting its quality significantly. Under these conditions the product preserves its quality for max. six (6) months from the date of its production. During storage below 15 °C the quality of ONGRONAT® XP 1136 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 re-melting procedure

sediment can be generated. If the product is not consumed immediately after re-melting, it is necessary to ensure storing 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 can become darker. Since carbon dioxide (CO<sub>2</sub>) is soluble in isocyanates, it is not recommended to use as an inert gas either.

# PROVISIONAL TECHNICAL DATA SHEET (TDS)

## ONGRONAT® XP 1136



### 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 moisture. Avoid contact with skin and eyes. Do not inhale the vapours of the product. When storing the

product in drums or IBCs attention needs to be paid to avoid stacking it to more than 2 levels in order to prevent the failure of the pallets or the packaging material leading to injury or damage. Detailed safety information available in the specific Safety Data Sheet.

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Provisional Technical Data Sheet (TDS)  
ONGRONAT® XP 1136

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

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