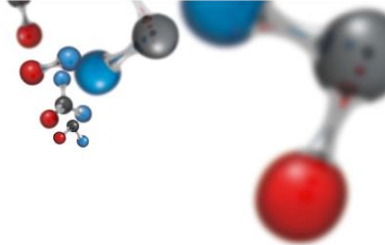


PROVISIONAL TECHNICAL DATA SHEET (TDS)

ONGRONAT® XP 1183



- **Product Description:** ONGRONAT® XP 1183 is a mixture of MDI mixed isomers and polymeric MDI
- **Appearance:** Solvent free, brown low viscosity liquid at room temperature
- **Applications:** ONGRONAT® XP 1183 is a specialty isocyanate developed for the production of various polyurethane products

SPECIFICATIONS*

| Property | Value | Dimension | Test method |
|----------------------|-------------|-----------|---------------------------|
| NCO | 31.5 – 33.5 | 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) | 1.21 | g/cm ³ |
| Flashpoint | >200 | °C |

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

PACKING, TRANSPORT & STORAGE

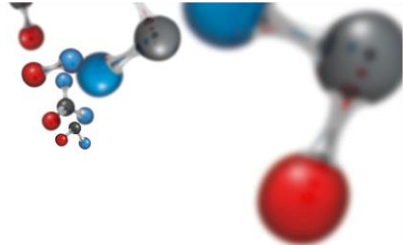
ONGRONAT® XP 1183 can be packaged and transported in road tankers, 1000 l containers, 225 kg non-returnable metal drums, or in metal cans under nitrogen blanket. The loading temperature is 40 – 45 °C. Please note that based on the distance of the destination the delivery temperature may differ from the loading temperature, but still remains in the range of 20 – 45 °C delivering the product in bulk. Transporting ONGRONAT® XP 1183 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. Please note that transporting ONGRONAT® XP 1183 by the means of normal truck in drums or IBCs the delivery temperature can not be warranted. ONGRONAT® XP 1183 is shipped according to the above mentioned delivery temperature ranges in the lack of any special requirement.

It is recommended to store ONGRONAT® XP 1183 within the temperature range of 20-30 °C. Besides the strict observation of the recommendations set out in this Technical DataSheet the product preserves its quality for a period of 9 (nine) months from the date of its production. During storage below 20 °C the quality of ONGRONAT® XP 1183 can deteriorate, because of the partial crystallisation of its 4,4'-methylene diphenyl diisocyanate content. If this occurs, the product can be liquefied again by heating it up to 70°C as rapidly as possible in a controllable way. During this re-melting

procedure sediment can be generated. If the product is not consumed immediately after re-melting, it is necessary to arrange for storing at the recommended storage temperature. Storage at a temperature above 30 °C is not recommended since discolouration and formation of insoluble solids (dimerisation) may occur that 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 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 may cause oxidation and due to this, the colour of the product may become darker. Since carbon dioxide (CO₂) is soluble in isocyanates, it is not recommended to use as an inert gas either.

PROVISIONAL TECHNICAL DATA SHEET (TDS)

ONGRONAT® XP 1183



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 1183

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