

Technical Data Sheet

Tosoh MILLIONATE[®] MR200

Description

MILLIONATE[®] MR200 is a dark-brown, liquid blend of diphenylmethane-4,4'-diisocyanate (MDI) with isomer and homologues of higher functionality. It is used in conjunction with polyols to produce rigid, semi-rigid, and integral skin foams. It can also be used to manufacture polyurethane binders, coatings, adhesives, and elastomers.

Typical Component Properties

| Serial No. | Characteristics | Unit | Specifications |
|------------|------------------|------|----------------|
| 1. | Physical State | None | Liquid |
| 2. | Colour | None | Dark Brown |
| 3. | Specific Gravity | None | 1.24 (25°C) |
| 4. | Viscosity | cps | 150-250 (25°C) |

Typical Reaction Characteristics

| Serial No. | Characteristics | Unit | Specifications |
|------------|----------------------------|---------|----------------|
| 1. | Ideal Operated Temperature | Celsius | 21-23°C |
| 2. | NCO Content | % | 30.5 – 32.5 |
| 3. | Acidity (HCL) | % | 0.04 max |
| 4. | Flash Point | Celsius | 226 |
| 5. | Average Functionality | None | 2.7 |

Handling and Storage

The product must be stored out of direct sunlight and weather. The containers must always be kept sealed against moisture. Ideal storage temperature is approximately 30°C or less. Under these conditions, the product will remain stable for 6 months.

MILLIONATE[®] MR200 may undergo partial crystallization at temperatures below 0°C. The product can, however, be brought back into the liquid state by heating the entire contents of the drum for short time to a maximum of 70°C, although this may lead to an increase in the solids content. Drums - including empty ones- should always be kept tightly sealed. The product should never be allowed to come into contact with water, which reacts with MILLIONATE[®] MR200 to form polyurea and carbon dioxide. Contact with water in any form (damp drums, solvents containing water, moist air) must be prevented not only during storage, but also when removing material from drum and during processing. Failure to do so may lead to a dangerous build-up of pressure in tanks and drums due to the generation of carbon dioxide. In addition, polyurea forming in MILLIONATE[®] MR200 can cause solids to separate out, leading to blockages in the filters, pumps and pipelines of the processing equipment and resulting in production problems.

Safety Precautions

MILLIONATE ® is a blend of diphenylmethane-diisocyanate, isomers and homologues.

- Because of its character, MILLIONATE ® may cause slight to moderate irritation when it is exposed to the skin, the eyes, and the mucous membranes.
- Safety goggles and impermeable protective gloves should always be worn if there is a risk of direct exposure when handling MILLIONATE ®.
- Splashes that are exposed to skin must be wiped off immediately and the contaminated areas must be thoroughly washed with soap and water.
- Affected areas should be treated with a good barrier cream.
- To prevent further contact with the skin, contaminated clothing should be changed immediately and thoroughly cleaned before reuse.
- The product must be kept away from food items.
- Anyone involved in the application of the system must familiarize themselves with the safety precautions required for rigid polyurethane foams.

Disclaimer

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Contact Information:

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