

WANNATE[®] 8310

Application

WANNATE[®] 8310 is a modified diphenylmethane diisocyanate (MDI) for spray polyurea elastomer/hybrid system. It is a light yellow liquid at room temperature. Compared with WANNATE[®] 8312, it gives a higher reactivity; Suitable for application in waterproof fields;

Typical physical and chemical properties

Name	WANNATE [®] 8310
Appearance	light yellow liquid
Isocyanate equivalent weight	271
NCO content, %	15.5
Viscosity at 25℃, mPa.s	700
Specific gravity at 25℃	1.14
Acidity (as HCL) , %	<0.05
Flash point, °C	>170

*These values provide general information and are not part of the product specification.

Package

210 liters iron drums, 220 kg/ Drum

Storage

Since WANNATE[®] 8310 is a reactive chemical, reaction with atmospheric moisture happens easily and leads to the formation of insoluble ureas and carbon dioxide gas, which can result in pressure build-up in closed containers and viscosity increase of the product. Containers must therefore be absolutely dry and carefully sealed after congested with nitrogen.

Containers of WANNATE[®] 8310 should be kept properly closed and stored indoors at ambient temperatures (15-25℃) in a well-ventilated area. Storage at low temperatures (below 10℃) may lead to some crystallization; this material must, therefore, be protected from frost. If crystallization does occur, the material should be heated to 70-80℃ to melt it out, strictly prohibit to heat over at local part and should then be thoroughly agitated before use.

Shelf Life

Under recommended storage conditions, the shelf life of WANNATE[®] 8310 is six months. If the production is overdue, but it's main physical and chemical properties in the guide line, may not effect on it's using properties.

Safety

WANNATE[®] 8310 is of low toxicity by inhalation and skin absorption. The very low volatility of WANNATE[®] 8310 means that it should be of little hazard for brief exposures under normal conditions, e.g. in cases of small spillages.

Nevertheless, WANNATE[®] 8310 is an isocyanate-based composition and should be of certain toxicity. It may cause mild eye irritation and slight skin irritation. It may pose problems of skin sensitization. WANNATE[®] 8310 has a Ceiling Threshold Limit Value, TLV(C) of 0.02ppm(0.2mg/M³). It is important to note, however, that a vapour hazard will arise if the material is heated to temperatures above 40℃, or if it is reacted in an unventilated space. Another hazard is the formation of air-borne droplets during spraying operations. Under such conditions, it is essential to wear a gas mask and a respirator since repeated inhalation of the vapour at levels above the

TLV(C) could cause respiration sensitization.

Even under normal conditions, WANNATE[®] 8310 remains a reactive chemical and care should be taken when handling it to prevent its coming into contact with the skin and eyes. Suitable protective clothing such as glove, protective spectacles and work suit should be worn.

Splashes on the skin or in the eyes should be removed promptly by irrigation with clean water and the skin should be well washed with soap and water. Since WANNATE[®] 8310 is very easy to react with moisture and leads to the formation of carbon dioxide gas, containers must therefore be absolutely dry and sealed to protect from moisture and water. In case water splashes into the containers, be careful to avoid sealing it too tightly. It is important to leave holes to prevent containers from explosion.

Declaration

The data in this manual are provided as general information only. The guaranteed specifications please see the Quality Warranty or the contract. It is the user's responsibility to test the material and its suitability for a process. We have no control over what another party does with the material and we cannot take any responsibility for another party's action. Nor will we be responsible for any indirect damages while using our products. For more details, contact Market Department or technical service center.

For more information, please refer to our SDS or contact our customer service center.

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