

Desmodur[®] I

Characterization	Monomeric cycloaliphatic diisocyanate. In the manufacture of polyisocyanates and polyurethanes.		
Chemical description	3-Isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanate or isophorone diisocyanate (IPDI).		
	C ₁₂ H ₁₈ N ₂ O ₂		
	Molecular weight	222	
	Equivalent weight	111	
CAS number	4098-71-9		

Specification	Property	Value	Unit of measurement	Method
	Assay (GC)	≥ 99.5	%	
	NCO content (calculated from GC)	≥ 37.5	%	
	Hydrolyzable chlorides	≤ 160	mg/kg	M102-AFAM 2008-0013
	Total chlorides	≤ 200	mg/kg	M999-Laboratory method
	Color value (Hazen)	≤ 30		M017-EN 1557

Other data*	Property	Value	Unit of measurement	Method
	Viscosity at 25 °C	approx. 10	mPa·s	DIN EN ISO 3219/A.3
	Density at 20 °C	approx. 1.06	g/ml	DIN EN ISO 2811
	Flash point	approx. 150	°C	DIN EN 22 719
	Vapor pressure at 25 °C	approx. 1.2 x 10 ⁻³	hPa	

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

Desmodur[®] I

Storage

- Storage in original sealed Covestro container.
- Recommended storage temperature: 0 - 30 °C.
- Protect from moisture, heat and foreign material.

General information: The product is sensitive to moisture. Storage at higher temperatures will result in increase of color and viscosity. Storage at significant lower temperatures will result in solidification. This solidification is reversible by briefly heating the product without adversely affecting the quality of the product.

Storage time

Covestro represents that, for a period of six months following the day of shipment as stated in the respective transport documents, the product will meet the specifications or values set forth in section "specifications or characteristic data" above, what ever is applicable, provided that the product is stored in full compliance with the storage conditions set forth in and referenced under section "storage" above and is otherwise handled appropriately.

The lapse of the six months period does not necessarily mean that the product no longer meets specifications or the set values. However, prior to using said product, Covestro recommends to test such a product if it still meets the specifications or the set values. Covestro does not make any representation regarding the product after the lapse of the six months period and Covestro shall not be responsible or liable in any way for the product failing to meet specifications or the set values after the lapse of the six months period.



Desmodur[®] I

Hazardous properties

The product is toxic by inhalation. It severely irritates the skin and may cause reddening, swelling, inflammation and rashes. The vapors irritate the mucous membranes of the eyes and the respiratory tract, causing watering of the eyes and coughing. Skin contact and possibly also inhalation may cause sensitization. The product is toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Labeling and statutory requirements

This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet. Any updating of safety-relevant information – in accordance with statutory requirements – will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently **valid Safety Data Sheet**.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

This product is not designated as „Medical Grade“ (1) and therefore shall not be considered a candidate for the manufacture of a medical device or of intermediate products for medical devices, which are intended under normal use to be brought into direct contact with the patient's body (e.g., skin, body fluids or tissues, including indirect contact to blood)*. This product is also not designated for Food Contact (2), including drinking water, or cosmetic applications. If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, for Food Contact products or cosmetic applications Covestro must be contacted in advance to provide its agreement to sell such product for such purpose. Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, for Food Contact products or cosmetic applications must be made solely by the purchaser of the product without relying upon any representations by Covestro.

1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

2) As defined in Commission Regulation (EU) 1935/2004.

Editor: Coatings, Adhesives & Specialties
Covestro AG
Kaiser-Wilhelm-Allee 60
51373 Leverkusen, Germany
www.covestro.com

Contact:
CAS Single Point of Contact EMEA
e-mail: cas_spoc_emea@covestro.com

page 3 of 3

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 **Desmodur[®]**

Product Datasheet