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	<b>Diisobutyl Phthalate</b>	Issue	01
		Effective date	Jan. 01, 2000
<b>PART I SPECIFICATION</b>			

### 1. Product name

#### a) commercial name

- in English diisobutyl phthalate (DIBP)
- in German Diisobutylphthalat

#### b) chemical name

- in English diisobutyl phthalate
- in German Diisobutylphthalat

#### c) chemical formula $C_6H_4(COOC_4H_9)_2$

### 2. Quality requirements

#### 2.1. General requirements

Diisobutyl phthalate is an oily liquid, colourless to light-straw in colour, with no mechanical impurities.

#### 2.2. Physical-chemical properties

Parameter	Value	Method*	Equivalent method
a) colour, Pt-Co scale, max.	60	PN-81/C-04534/01	DIN ISO 6271
b) flash point, °C, min.	170	PN-82/C-04008	ISO 2592
c) esters as diisobutyl phthalate, % (m/m), min.	99.5	PN-80/C-88031	ISO 1385/V
d) density at 20°C, g/cm <sup>3</sup> , within	1.037-1.041	PN-90/C-04004	DIN 51757
e) free acids as phthalic acid, % (m/m), max.	0.02	PN-80/C-88031	ISO 1385/IV
f) refractive index, $n_D^{20}$ , within	1.488-1.492	PN-81/C-04952	ISO 1385/I
g) water content, % (m/m), max.	0,15	PN-81/C-04959	ISO 760

### 3. Application

Diisobutyl phthalate is employed as an additional (supplementary) plasticizer for PVC – it improves gelation. Also, it is a light-resistant plasticiser for lacquers, latex compounds and in the production of paste paints.

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#### 4. Storage stability

Diisobutyl phthalate is a chemically stable material. When the storage and transport conditions as per sections 7 and 8 are observed, the quality parameters as per section 2 will be maintained over the period of 6 months from the date of loading.

#### 5. Quality documents

Unless the client's order (or contract) demands otherwise, each parcel of diisobutyl phthalate shipped should be accompanied by a quality certificate to evidence that the product quality parameters satisfy the requirements specified in this Product Sheet.

#### 6. Packaging

Diisobutyl phthalate is shipped in:

- steel-made rail tankers or road tankers
- client's unit containers, made of steel or other material applicable for transport of diisobutyl phthalate.

#### Markings applicable for client's containers

The container(s) should be provided with tangible information specifying:

- product name as per 1 a),
- name of producer

#### 7. Storage

Diisobutyl phthalate is to be stored at ambient temperature in closed steel tanks; access of moisture should be prevented. Keep away from strong oxidising agents. Do not use rubber seals.

#### 8. Transport

Diisobutyl phthalate is transported in tankers and/or in containers as per section 6. However, the conditions as per section 7 above should be observed. Diisobutyl phthalate has not been classified as a dangerous/hazardous material by the RID/ADR rules (on the basis of a certificate from IPO).

#### 9. Other information

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#### 10. Reference documents

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Product Sheet, part II 'Test methods'

Product Sheet, part III 'Material Safety Data Sheet'

PN-90/C-04004 'Petroleum and petroleum products. Determination of density'

PN-82/C-04008 'Petroleum products. Determination of flash point by Marcusson open cup method'

PN-81/C-04534.01 'Chemical analysis. Determination of colour of chemical products by Hazen units (platinum-cobalt scale)'

PN-81/C-04952 'Chemical analysis. Determination of refractive index of liquid organic compounds'

PN-81/C-04959 'Determination of water content by Karl Fischer method in organic and inorganic products'

PN-80/C-88031 'Dibutyl phthalate for industrial use'

## 11. Supersedes

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**Approved for use:** Dec. 23, 1999