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	Dibutyl Phthalate E	Issue	01
		Effective date	Aug. 20, 1998
PART I SPECIFICATION			

1. Product name

a) commercial name

- in English dibutyl phthalate E (DBP E)
- in German Dibutylphthalat E

b) chemical name

- in English dibutyl phthalate
- in German Dibutylphthalat, Phthalsäuredibutylester

c) chemical formula $C_6H_4(COOC_4H_9)_2$

2. Quality requirements

2.1. General requirements

Dibutyl phthalate E is an oily liquid, colourless to straw-coloured, 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 dibutyl phthalate, % (w/w), min.	99.0	PN-88/C-89401	ISO 1385/V
d) density at 20°C, g/cm ³ , within	1.045-1.048	PN-90/C-04004	DIN 51757
e) free acids as phthalic acid, % (w/w), max.	0.02	PN-88/C-89401	ISO 1385/IV
f) refractive index, n_D^{20} , within	1.492-1.495	PN-81/C-04952	No equivalent, PN-81/C-04952

3. Application

Dibutyl phthalate E is a plasticizer employed in the plastics processing, in the paint and varnish industry, and in compounding flavours and adhesives.

4. Storage stability

Dibutyl phthalate E 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 shipment.

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5. Quality documents

Unless the client's order (or contract) demands otherwise, each parcel of dibutyl phthalate E 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

Dibutyl phthalate E is shipped in:

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

Markings applicable for tankers

As provided for in RID/ADR rules, the tankers should be marked with:

- orange safety plaques with the identification number $\frac{90}{3082}$
- warning labels No 9.

When the product is to be sold to the domestic market, its trade name as per 1 a) should be specified in its quality certificate appended to the bill of lading. When the product has been intended for export, its name as per 1 a) should be specified in its quality certificate; other information and marking - as agreed with the customer.

Markings applicable for client's containers

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

- product name as per 1 a),
- UN number 'UN 3082',
- warning label No 9 as per RID/ADR,
- UN certificate sign for the packing itself.

7. Storage

Dibutyl phthalate E is to be stored at 35°C in steel tanks; access of moisture should be prevented. Keep away from strong oxidising agents.

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8. Transport

Dibutyl phthalate E is transported in tankers and/or in containers as per section 6.

Dibutyl phthalate E is classified as a dangerous/hazardous material by the RID/ADR rules:

- RID class 9, lm 901, p.11c
- ADR class 9, lm 2901, p.11c

The means of road transport to carry dibutyl phthalate E in unit containers should be marked with reflective orange safety plaques. The rail tankers to carry dibutyl phthalate should be marked with warning labels No 9 as per RID/ADR.

9. Other information

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10. Reference documents

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-88/C-89401 'Plasticizers. Test methods.'

Approved for use:

Aug. 07, 1998