

REVISED DATE: 01 JANUARY 2011

**1. SUBSTANCE AND COMPANY UNDERTAKING**

**PRODUCT NAME:** DBP, DIBUTYL MALEATE  
**SUPPLIER:** INNua PETROCHEM LTD  
**STREET ADDRESS:** PO BOX 3069, ROAD TOWN, TORTOLA, BRITISH VIRGIN ISLANDS  
 TEL: +1 284 495 0244 FAX: +1 284 495 0245

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

**CHEMICAL NAMES:** MALEIC ACID DIBUTYL ESTER; DI-N-BUTYL MALEATE;  
 BIBUTYL MALEATE; 2-BUTENEDIOIC ACID, DIBUTYL ESTER;  
 BUTYL MALEATE

**PREPARATION DESCRIPTION:** DIBUTYL MALEATE IS PLASTICIZER USED IN THE  
 MANUFACTURE OF PVC. ITS BENEFITS INCLUDE MAINTAINING PVC  
 TRANSPARENCY AND IT IS ALSO USED AS AN INTERMEDIATE  
 FOR THE PRODUCTION OF PAINTS, ADHESIVES AND COPOLYMERS.

**CONTENT (W/W):** > = 96.5%; IMPURITIES: <3.5%

**MOLECULAR FORMULA:**  $C_2H_2[COOC_4H_9]_2$  MOLECULAR WT: 278.35

<b>CAS NUMBER:</b>	<b>EINECS NUMBER:</b>	<b>REACH REFERENCE NUMBER:</b>
105-76-0	203-328-4	02-2119787942-21-0000

**OTHER SUBSTANCES IN PREPARATION:** DIBUTYL FUMARATE, NOT MORE THAN 2% BY WEIGHT  
 105-76-01 - **NOT REACH REGISTERED**

**3. SALES SPECIFICATION (PHYSICAL AND CHEMICAL PROPERTIES)**

ITEM	UNIT	TEST METHOD	SPECIFICATION
Appearance		VISUAL	Transparent, oily and free from matter
Colour	APHA	DIN ISO 6271	40 Maximum
Density@ 20°C	G/CM <sup>3</sup>	DIN 51 757	0.993 - 0.995
Water	wt%	ASTM E203	0.05 Maximum
Acidity	mg/KOH/g	DIN 53 402	0.05 Maximum
Ester Content	wt%	ASTM D3465	98.5 Minimum
Refractive Index @ 20°C		DIN 51 423/2	1.445 - 1.446
Dibutyl Maleate Content	wt%		98.5
Dibutyl Fumarate Content	wt%		2.0 Maximum