規格標準管理明細	
編號	95
規格標準分類	(OA)辦公室用具產品類
環保標章規格標準	植物油油墨
版本	1.0.1
更新日期	2011/09/15
環保標章規格標準英文名稱	Vegetable oil-based Inks
產品相關標示	低污染
產品相關英文標示	Low Pollution
規格標準內容	1. 本規格標準適用以植物油製成之張頁式平版印刷、輪轉式平版及新聞紙印刷油墨(不含UV油墨、無水平版油墨、金屬色油墨及珍珠色油墨等特殊之平版油墨)。 2. 產品不得含甲醛及腐性溶劑。產品中芳香族碳氫化合物含量應爲1%以下。(附註1、2) 3. 產品不得含汞、鉛、頻、大價盤、砷、錫、鋇、硒等重金屬及其化合物。產品組成物中雜質或污染產生之上述重金屬總量應爲0.01%以下。(附註3) 4. 產品不得含三苯基錫(TPT)、三丁基錫(TBT)與鄰苯二甲酸酯類。(附註4、5) 5. 產品不得含偶氮色料。(附註6) 6. 產品中揮發性有機化合物(沸點不超過250°C)含量應爲5%以下。(附註7) 7. 油墨色彩應依其應用性質,符合ISO 2846-1:1997(E)或ISO 2846-2:2000(E)之規範。 8. 產品不得含是保署公告之毒性化學物質,並應檢附完整之產品物質安全資料表。 9. 產品包裝或說明書應註明廢油墨與容器之處理資訊。 10. 標章使用者的名稱及住址須清楚記載於產品或包裝上。 11. 產品或包裝上須標示「低污染」。 附註: 1. 甲醛含量之檢測方法應爲國際或國家或特定行業之標準方法如NIEA R502 ,其值測極限應爲5ppm以下。 2. 鹵性溶劑含量之檢測方法應爲國際或國家或特定行業之標準方法如EN14582,其值測極限應爲5ppm以下。 3. 六價鉻、錫、鉛、砷、錫、銀、硒及汞金屬含量之檢測方法應爲國際或國家或特定行業之標準方法如US EPA 3060A/3050B/3051A/3052或NIEA M317.01C,其值測極限應爲2ppm以下。 4. 三苯基錫(TPT)與三丁基錫(TBT)之檢測方法應爲國際或國家或特定行業之標準方法如NIEA T504.30B,其值測極限應爲2ppm以下。 5. 鄰苯三甲醛酯類之檢測方法應爲國際或國家或特定行業之標準方法如NIEA M731.00C ,其值測極限應爲5ppm以下。 6. 偶氮色料含量之檢測方法應爲國際或國家或特定行業之標準方法如LMBG 82.02-2,其值測極限應爲5ppm以下。 7. 揮發性有機化合物含量之檢測方法應爲國際或國家或特定行業之標準方法如LMBG 82.02-2,其值測極限應爲5ppm以下。
規格標準英文內容	 The following criteria apply to vegetable oil-based inks ("products") used in sheet-fed offset lithography, web-fed lithography and newspaper printing process, but excluding specialized inks such as UV inks, water-free offset lithography inks, metallic color inks and pearl color inks. The product shall not contain formaldehyde and halogen-containing solvents. And the product's aromatic solvent content shall be less than 1% of the total product volume (see Notes 1 & 2). The product shall not contain mercury, lead, cadmium, hexavalent chromium, arsenic, antimony, barium, selenium and their compounds. The total content of the aforementioned heavy metals due to impurities and contamination shall be less than 0.01% by weight (see Note 3). The product shall not contain triphenyltin (TPT) and tributyltin (TBT) (see Notes 4 and 5). The product shall not contain azo dyes (see Note 6). The product's content of volatile organic compounds (VOC) (boiling point less than 250°C) shall be less than 5% (see Note 7). Based on the applications, the colors of ink products shall meet the requirements of ISO 2846-1:1997(E) or ISO 2846-2:2000(E). The product shall not contain toxic substances promulgated by the Environmental Protection Administration, and shall enclose complete material safety data sheet. The product packaging or instructions manual shall contain information on treatment/disposal of waste inks and containers. The name and address of the Green Mark user must be clearly printed on the product or on the packaging. The product or its packaging shall bear a label reading "Low Pollution". Notes: Determinations of contents of formaldehyde shall be based on international, national or specific industry standards, such as NIEA R502, and the detection limits shall be no greater than 5 ppm. Determinations of contents of haxavalent chromium, cadmium,

- M317.01C, and the detection limit shall be no greater than 2 ppm.
 4. Determinations of contents of triphenyltin (TPT) and tributyltin (TBT) shall be based on international, national or specific industry standards, such as NIEA T504.30B, and the detection limit shall be no greater than 2 ppm.
- 5. Determinations of contents of phthalates shall be based on international, national or specific industry standards, such as NIEA M731.00C, and the detection limit shall be no greater than 5 ppm.

- Determinations of contents of azo dyes shall be based on international, national or specific industry standards, such as LMBG 82.02-2, and the detection limit shall be no greater than 5 ppm.
 Determinations of contents of volatile organic compounds shall be based on international, national or specific industry standards, such as NIEA M152.01C, and the detection limit shall be no greater than 5 ppm.