



國邦化學股份有限公司



KUO PONT CHEMICAL CO., LTD.

安全資料表 Safety Data Sheet (SDS)

一、化學品與廠商資料/Material and Maker information：

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| 化學品名稱 Material name：熱硬化型粉體塗料(THERMOSETTING POWDER COATING) | |
| 其它名稱/Material No：770-5366 | |
| 建議用途及限制使用：使用於表面塗裝保護。不建議使用於其他非相關用途。 Suggestive Use： Only to apply on Coating for protection instead of other unrelated purpose. | |
| 製造者、輸入者或供應者： 公司名稱：國邦化學股份有限公司 地址：台南市新市區興業路8號 電話：06-5993611 Company name： Kuo Pont Chemical Co., Ltd. Company address： No.8 Hsing Yeh Road, Hsin Shih Dist., Tainan City, Taiwan, R.O.C TEL： 06-5993611 | |
| 緊急聯絡電話(Emergency phone)：06-5993611 | 傳真電話(Fax No)：06-5995801 |

二、危害辨識資料 Hazards information：

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| 化學品危害分類：呼吸道或皮膚過敏物質第1級 Product hazards classification： The first grade of the respiratory tract or skin-allergy. | |
| 標示內容(Indication content)：驚嘆號(Exclamation mark) 健康危害(Health hazards) |   |
| 警示語(Caution Language)：警告(Warning) | |
| 其他危害：無 Other hazards：No | |

三、成份辨識資料/Composition/information on ingredients：

☐：純物質 Pure material

☒：混合物 Mixture

| 化學性質(Cheical property)：熱硬化型粉體塗料(THERMOSETTING POWDER COATING) | | |
|---|---------------------------|-----------------------|
| 危害成分 (Hazardous Ingredients) | 成份百分比 Density scope(%) | 化學文摘社登記號碼 (CAS NO) |
| Modified Bis-phenol A Type Solid Epoxy Resin | 22~25% | 25036-25-3 |
| DODECANEDIOIC ACID | 3~5% | 693-23-2 |
| Acrylic Polymer | <1% | 140-88-5 |
| Silica Amorphous | <1% | 112926-00-8 |
| 2-Hydroxy-2-phenylacetophenone | <1% | 119-53-9 |
| Barium sulphate | 25~29% | 7727-43-7 |
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四、急救措施/First aid measures：

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| 吸入/Inhalation： 轉移至新鮮空氣處。若呼吸困難，給予氧氣。若症狀持續應取得醫療協助。 Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms. |
| 皮膚接觸/Skin Contact：使用大量的水及肥皂清洗。 Wash immediately with plenty of water and soap. |
| 眼睛接觸/Eye Contact：立即以大量的水沖洗至少十五分鐘。 Rinse immediately with plenty of water for least 15 minutes. |
| 食入/Ingestion： 如果吞下，立即打電話請醫生。僅在醫生指導下誘吐。絕不要通過嘴給失去知覺的人餵食任何東西。 If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. |
| 最重要症狀及危害效應：無 The most important symptoms and hazardous effects：N/A |
| 對急救人員之防護：應穿著 C 級防護裝備在安全區實施急救 The protection of first-aiders：Wear the level C protection to give first-aid in safety area. |
| 對醫師之提示(Advice for Doctor)：無 (N/A) |

五、滅火措施/Fire extinguishing measures：

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| 適用滅火劑：使用 ABC 乾粉滅火器 Extinguishing media：ABC dry powder fire extinguisher |
| 滅火時可能遭遇之特殊危害：濃煙嗆傷 Specific hazards may be encountered during fire-fighting：The thick smoke chokes the wound. |
| 特殊滅火程序(Special fire extinguishing procedure)：無 (N/A) |
| 消防人員之特殊防護設備：配帶空氣呼吸器、防護手套、消防衣。 Personal protection：Self contained breathing apparatus、Protective glove、Fire clothes. |

六、洩漏之處理方法/Leakage consideration：

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| 個人應注意事項：(Personal precautions) 1、在進入之前必須為封閉的空間通風 移除所有火源。並穿戴適當的個人防護裝備 Ventilate before entering enclosed space and remove all possible fire source. Please wear proper protective equipment. 2、及時做好人員疏散工作。Disperse the workers soon. |
| 環境注意事項：(Environmental precautions) 3、操作過程中有粉塵洩漏逸散情形時，應予立即停止操作並關閉設備停止生產。 If the dust leakage is occurred in working procedure, should stop operation at once and turn off the production equipment. 4、避免釋放到環境中。Environmental Precautions: Avoid releasing to the environment |
| 清理方法：(Methods for cleaning up) 5、啟動通風設備或使密閉空間以最短時間內保持空氣暢通，使一定空間內之粉塵濃度降至容許範圍內。 Start ventilation facilities or keep air refresh in closed space in a short time, reduce dust concentration down to the specified allowance in a specific space. 6、發生洩漏時，洩漏區域內除馬上保持通風外，若粉塵濃度高於標準時，不可啟動電源並嚴禁煙火等跳火苗，以免發生塵爆或火勢。 When dust disclose， in addition to the disclosed space should keep ventilation, don't start electrical power and inhibit sparking tools to causing avoid dust exposure or fire. |

七、安全處置方法及儲存/ Operation and storage and Storage :

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| 處置 Operation | 1、作業場所要嚴禁煙火並避免使用可能跳火花之器具。 The working places should isolate from sources of fire and spark facility. |
| | 2、從事粉塵作業儘可能在上風位置工作，以免吸入過量粉塵。 The workers should stand in the air inflow position avoid excess inhalation. |
| | 3、必要時穿戴適當的個人防護設備。如：戴手套/護目鏡。 If necessary, workers are required to wear proper protective clothings. (Nitrile rubber gloves/safety glasses) |
| | 4、作業場所應定期清掃保持清潔並確實實施噴水工作，有效抑制粉塵飛揚。 The working places should clean in a periodic schedule and water spraying to down powder explosion. |
| | 5、作業勞工應定期接受相關操作之安全衛生教育訓練。 The workers should take the working safety and sanitary training. |
| 儲存 Storage | 1、避免與眼、皮膚和衣服接觸。適合的通風。保持容器密閉 工作後徹底清洗。 The working places should be cleaned in a periodic schedule and water spraying to is down powder explosion. |
| | 2、避免重壓使包裝紙箱變形，進而使產品品質產生變化。 Avoid heavy loading to damage the packing boxes, to affect the product quality. |
| | 3、遠離火源。貯存區應有適當的滅火器。 Keep away from sources of ignition。The storage area should be furnished with fire extinguisher. |
| | 4、儲存於陰涼、乾燥通風良好的地方 Store in a cool, dry, well-ventilated space |

八、曝露預防措施/Exposure control/personal protection :

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| 工程控制 Engineering controls | 1. 設置局部排氣裝置設備。Setting the part exhaustion facility. | | | |
| | 2. 設置整體換氣裝置設備。Setting the whole exhausting facility. | | | |
| | 3. 排氣直接通到室外，並採取保護環境之重要措施。 all exhaust has to be delivered straight to the out doors and take proper actions to avoid any forms of pollution. | | | |
| 控 制 參 數/Applicable exposure limits | | | | |
| 容 許 濃 度/ Concentration allowance | | | LD 50 | LC 50 |
| 8 小時時量平均容許濃度/8H Time/volume average allowance concentration (TWA) | 短時間時量平均容許濃度 Short time average allowance concentration (STEL) | 最高容許濃度 The ceiling allowance concentration (CEICING) | 測試動物吸收途徑 Test animal inhalation way | 測試動物吸收途徑 Test animal inhalation way |
| 無(N/A) | 無(N/A) | 無(N/A) | 無(N/A) | 無(N/A) |
| 個人防護設備 Personal protection | 1、眼睛防護：配戴眼睛/面部防護如化學防濺護目鏡或面罩。 Eye protection: : Wear eye/face protection such as chemical splash proof goggles or face shield. | | | |
| | 2、呼吸防護：可過濾粉塵之口罩或面罩 Respiration protection : Dust respirator. | | | |
| | 3、皮膚及身體防護：連身或防護衣 Skin and body protection : Protective overall or sheath. | | | |

九、物理及化學性質/Physical and chemical properties：

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| 物質狀態(Physical state)：粉末(Powder) | 形狀(Outline)：粉末(Powder) |
| 顏色(Color)：黑色 Black | 氣味(Smell)：無(N/A) |
| 沸點(Boiling point)：N/A | 熔點(Melting point)：100℃ 以上。 |
| 蒸氣壓(Vapor pressure)：N/A | 比重(Gravity specific)：(水(Water)=1) 1.2~1.8 |
| 溶解度：幾近 0 (不溶於水) Solubility：near 0 〈 insoluble in water 〉 | 爆炸界限(Explosion limitation)：10~50g/m ³ |
| 閃火點(Flash point)：400℃ ↑ | |
| 測試方法(Test method)：□ 開杯(Opened lid) ■ 閉杯(Closed lid) | |

十、安定性及反應性/Stability and inflection characters：

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| 安定性 Stability | 安定(Stable) | ✓ | 應避免之狀況：常溫常壓下安定，儲存溫度不得高於 40℃ 以免產生結團、固化現象。 |
| | 不安定(Unstable) | | |
| 危害之聚合 Hazard combination | 可能發生(Possible) | | Caution：It is stable under atmosphere pressure and temperature must be store under 40℃ to avoid concentration and caring status. |
| | 不會發生 Impossible | ✓ | |
| 應避免之狀況：遠離火焰、火花、熱及引火源 Caution：Keep materials away from heat, fire, spark or other flaming sources. | | | |

十一、毒性資料/Toxicological information：

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| 暴露途徑：眼睛接觸、吸入、皮膚接觸、攝食。 Exposed way：Eye Contact、Inhalation、Skin Contact、Ingestion |
| 症狀(Symptom)：無 (N/A) |
| 急毒性(Acute toxicity)：無 (N/A) |
| 慢毒性及長期毒性 Slow toxicity or Long-term toxicity： 皮膚：接觸初期可能引溫和刺激，長期接觸可能導致局部產生紅腫斑點等過敏反應。 Skin：Contact in short time may cause minor irritation; in long time may lead to allergic symptom on skin such as reddish or swelling. 眼睛：因未帶護目鏡而致粉塵進入眼睛，會產生痛癢等暫時反應。 Eyes：Dust irrigates into eyes and cause temporary reaction i.e. eye creeping and pains when undress the protective eyeglasses. |

十二、生態資料/Ecological information：

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| 生態毒性 Ecotoxicity：無 (N/A) |
| 持久性及降解性 Durability and degradability：無 (N/A) |
| 生物蓄積性 The biology stores up the nature：無 (N/A) |
| 土壤中之流動性 In soil fluidity：無 (N/A) |
| 其他不良效應：當粉塵散逸出工作場所時，會造成周遭環境的污染，且粉塵經陽光直接照射，會硬化附著於周遭的物品上。 Other bad effects：The dust emission will cause pollution to surroundings. Then after dired exposure to sunlight , the dust will be solidified and fastened on the surface of objects. |

十三、廢棄物處置方式/Disposal consideration：

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| 廢棄物處置 方式 Disposal consideration | 1. 參考相關法規處理。Please take steps according to relevant regulations |
| | 2. 依照倉儲條件儲存待處理的廢棄物。 Please store all the waste in proper conditions according to your storage situation. |
| | 3. 廢棄物須委由合格之廢棄物清理公司負責清運。 Should consign the certified disposal treatment company to treat the disposal. |

十四、運送資料/Transport information：

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| 1、IATA/ICAO(國際航空運輸協會/國際民用航空組織)分級：無 (N/A)。 |
| 2、IMDG CODE(國際海運危險品)分級：無 (N/A) |
| 3、國內運送規定：請遵守道路交通安全規則。 Domestic regulations for transport：Please comply with traffic rules. |
| 4、運輸時確保產品包裝的密封、完整。Be sure to keep the product packed when shipped. |

十五、法規資料/Regulatory information：

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| 適用法規 Applicable regulation | 1. 職業安全衛生法。Occupational safety and health law |
| | 2. 危險物及有害物通識規則。Dangerous and harmful goods recognized regulation. |
| | 3. 事業廢棄物儲存清除處理方法及設施標準 Store and remove all the waste in proper methods and typical facilities. |
| | 4. 道路交通安全規則 Traffic safety regulation. |

十六、其他資料/ Other information：

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| 參考文獻 Reference | 產品相關資料(Product correlation data) |
| 製表者 單位 Maker unit | 名稱：國邦化學股份有限公司 Company name：Kuo Pont Chemical Co., Ltd. |
| | 住址：台南市新市區興業路8號 電話(Telephone)：(06)5993611 identification：No.8 Hsing Yeh Road, Hsin Shih Dist., Tainan City, Taiwan, R.O.C. |
| 製表人 Maker | 職稱(Title)：研發部協理 姓名/NAME (簽章)：邱登富 Title：Research and development department manager name：Chio Teng Fu |
| 製表日期 Maker Date | 2023/01/18 |
| 備註 Preparing Note | 此份資料乃根據目前經驗所提供，此安全資料表的目的是描述產品使用上的安全性，與產品的品質方面的擔保無關。 The SDS is according to the present experience This SDS'S goal describes the Safety when the product be used, has nothing to do with the product quality. |