

材料安全數據表 (MSDS)

Data Sheet No.	ECT - KT 7185
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Product No. (產品編號) : CF-3																							
Section 1.	Product Identification Material Identification Product Use(產品應用): Thermally conductive compound. 導熱化合物, 散熱用導熱膏																						
Section 2.	Composition / Information on Ingredients (組成/成份) <table border="1"> <thead> <tr> <th></th><th>Components</th><th>CAS No</th><th>%</th></tr> </thead> <tbody> <tr> <td>1</td><td>鋁粉 Al</td><td>7429-90-5</td><td>60~80</td></tr> <tr> <td>2</td><td>鋅氧粉 ZnO</td><td>1314-13-2</td><td>15~25</td></tr> <tr> <td>3</td><td>石蠟油 Oil</td><td>8002-74-2</td><td>10~20</td></tr> <tr> <td>4</td><td>抗氧化劑 antioxidant</td><td>6683-19-8</td><td>0.5~2</td></tr> </tbody> </table>				Components	CAS No	%	1	鋁粉 Al	7429-90-5	60~80	2	鋅氧粉 ZnO	1314-13-2	15~25	3	石蠟油 Oil	8002-74-2	10~20	4	抗氧化劑 antioxidant	6683-19-8	0.5~2
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Section 3.	Hazards Identification (危害辨識資料) ● Immediate health, physical, and environmental hazards (立即危險、實體危險及環境危險): No specific Hazards. However, use or processing of the product in a manner																						

	not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards. 無特殊危害，請依據規定使用及加工產品避免潛在健康及安全危害 Carcinogenicity (致癌誘因): This product contains no carcinogens. 無致癌因子。
Section 4.	First Aid Measures (急救措施) Symptoms and Effects (症狀/急性和延遲效應): Not expected to give rise to an acute hazard under normal conditions of use. 正常況狀條件下使用不會引起急性危險。 Ingestion(誤食): Do not induce vomiting. Rinse mouth and seek medical attention. 不要催吐。漱口和求醫。 Skin contact (皮膚接觸): Possible irritant on prolonged contact. Wash with soap and water . 長期接觸可能有刺激性。用肥皂和水清洗。 Eye Contact (眼睛接觸): May cause eye irritation. Immediately flush eyes with water for at least 15 minutes and get medical attention if irritation persists. 可能會導致眼睛發炎；立即用清水沖洗 15 分鐘，如果刺激持續，馬上就醫。 Inhalation (吸入): NO respiratory protection should be needed . Harmful if strongly heated vapors are inhaled. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Give medical attention immediately. 正常情況下沒有呼吸防護需要。如果強烈加熱蒸氣吸入是有害的。如果吸入，移至新鮮空氣處；如果不能呼吸，施予人工呼吸。假如呼吸困難，給予氧氣，馬上就醫。
Section 5.	Fire Fighting Measures(火警的措施)

	Specific Hazards(特殊危害)： Not classified as flammable but will burn. Hazardous combustion products may include carbon monoxide, carbon dioxide. 高溫環境下時可能是可燃的；燃燒時可能會產生一氧化碳及二氧化碳煙霧。 Extinguishing Media (適用滅火物質)： Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. On large fires use dry chemical, foam or water spray. 火警初期可使用消防水霧、二氧化碳滅火器、乾粉滅火器、泡沫滅火器。在大型火災，使用乾粉滅火器，泡沫滅火器或水霧。 Unsuitable Extinguishing Media (不適用滅火物質)： Water in a jet may disperse fire. 高壓水柱可能擴散火勢。 Protective Equipment (防護裝備)： Full protective clothing and self contained breathing apparatus. 穿戴能充分防護的設備和獨立自給式的呼吸器。
Section 6.	Accidental Release Measures(避免意外擴大的措施) Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. 用沙，泥土或其他合適屏障，防止擴散或進入下水道，水溝或河流進入。
Section 7.	Handling and Storage (操作與儲藏) Keep container closed when not in use. Use with adequate ventilation. Avoid eye Contact. Do not take internally. Exercise good industrial hygiene practice. 保持容器密封在不使用時。使用足夠的通風。避免接觸眼睛。不可內服。行使良好的工業衛生習慣。 Handling (操作)： Avoid prolonged or repeated skin contact. This product is considered to be

	an article that does not release or otherwise result in exposure to a hazardous chemical under normal use conditions. Use general dilution ventilation and / or local exhaust ventilation to control airborne exposures to below occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment. 避免長時間接觸皮膚。此產品於正常環境條件下操作不會釋放有毒化學物質；利用整體換氣或局部換氣設備控制職業暴露限值，或是配戴防護口罩。 Storage Temperatures (儲藏溫度): Storage at Room Temperatures. 儲藏於室溫 Storage (儲藏): Not applicable. (無法提供)
Section 8.	Exposure Controls / Personal Protection (曝露控制,個人保護措施) NO special ventilation requirements if good ventilation is maintained. Personal Protective Equipment: Where contact is likely, wear chemical resistant Gloves, long sleeves, and safety glasses with side shields. 保持良好的通風。 個人防護裝備：可能接觸時，穿耐化學腐蝕手套，長袖，安全眼鏡。 General Hygiene Considerations(一般衛生注意事項): Wash hands thoroughly after handling and before eating or drinking. 使用後和進食或飲水前徹底清洗雙手。 Personal Protection (個人保護措施) Eye (眼睛): Safety glasses are recommended to prevent particulate matter from entering eyes while grinding or machining. 操作過程中請配戴護目鏡避免粉塵造成眼睛刺激。 Skin (皮膚): Protective gloves are required when handling. 請配戴防護手套操作。 Body Protection(身體保護) :

	Standard issue work clothes which may include apron, safety shoes or boots as necessary. 著標準工作服(包含圍裙、工作鞋及靴子)。 Respirator (口罩): None under normal processing, if ventilation is adequate. 正常通風設備運作下不需配戴。
Section 9.	Physical and Chemical Properties(化學與物理特性): Appearance(外觀): Grease (膏狀體) Color(顏色): Gary (灰色) Solubility in water(水中溶解度): Insoluble (不溶) Odor (氣味): odorless (無氣味) pH(酸鹼度): 7 (中性) Specific Gravity(比重): 2.5 Flash Point: NA (無). Boiling Point: NA (無).
Section 10.	Stability and Reactivity (穩定性及反應性) Stability (穩定性): Stable under ambient conditions. Product is stable; hazardous polymerization will not occur. 常溫常壓下為穩定狀態。產品是穩定的，不會發生危險的聚合。 Conditions to Avoid (應避免狀況): Strong oxidizing agents. 避免強氧化劑。

Section 11.	Toxicological Information(毒性資料): Other Information (其他資訊): NA (無) Acute toxicity(急毒性): NA (無) Eyes damage/irritation (眼睛傷害/刺激性): Low Hazard for usual industrial handling. Direct contact may cause temporary redness and discomfort. 工業環境操作下為低危害。直接接觸可能引起暫時性紅腫和不適。 Skin Absorption (皮膚腐蝕性/刺激性): No significant irritation expected from a single short-term exposure. 短期暴露沒有顯著的刺激。 Carcinogenity (致癌誘因): This product contains no carcinogens. 無致癌因子。
Section 12.	Ecological Information (生態資料) Ecological Toxicity Information (生態毒性): Not applicable. (無法提供) Chemical Fate Information (環境中污染物之轉化與移動): Not applicable. (無法提供)
Section 13.	Disposal Considerations(廢棄處置方法) Waste Disposal (廢棄處置): This product must be disposed of as non-hazardous waste. Dispose of in accordance with local regulations. 本產品必須作為危險廢物處置。按照當地的規定處理。
Section 14.	Transport Information(運送資料):

	Hazard class (危害等級): NA (無) Shipping name (參考運單): NA (無)
Section 15.	Regulatory Information (法規資料): Follow all regulations in your country. 請根據並遵守該國的規定。 Labeling according REACH REGULATION (EU) 2015/830 : No labels required. REACH REGULATION (EU) 2015/830 標示要求: 符合 REACH REGULATION (EU) 2015/830 要求, 不用標示. LEGAL NOTICE This document contains guidance on the labelling and packaging requirements under Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation). The users are reminded that the text of the CLP Regulation is the only authentic legal reference and that the information in this document does not constitute legal advice. The European Chemicals Agency does not accept any liability with regard to the contents of this document. Guidance on Labelling and Packaging under the CLP Regulation Reference : ECHA-11-G-04-EN Publ.date : 04/2011 © European Chemicals Agency, 2011 Cover page © European Chemicals Agency
Section 16.	Other Information (其他資料): Prepared by(製表): Lester Lin Issued (發行日期): 28/07/2015

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