

安全资料表

SAFETY DATA SHEET

1. 化学品及企业标识 CHEMICAL AND COMPANY IDENTIFICATION

- 产品名称 PRODUCT NAME
 - 无卤素玻纤覆铜层压板
 - HALOGEN-FREE LAMINATE
- 物料编号 PRODUCT CODE
 - HF-140 (FR-4.1)
- 供应商名称 COMPANY NAME
 - 建滔积层板控股有限公司
 - KINGBOARD LAMINATES HOLDINGS LIMITED
- 商标 TRADE MARK
 - KB (红色) RED COLOR

2. 危险性概述 HAZARDS IDENTIFICATION

- 潜在的健康危害 POTENTIAL HEALTH HAZARDS:
 - 无特别的危险，但角边锋利，防止划伤
 - NO SEPCIAL DANGER, BEWARE OF THE SHARP EDGES
- 使用或打孔时可能产生粉末，可能使皮肤或眼睛感到刺激。
 - DUST, WHEN MACHINED OR PUNCHED MAY CAUSE SKIN OR EYE IRRITATION.

3. 成分/组成信息 COMPOSITION / INFORMATION ON INGREDIENTS

- 组成 COMPOSITION
 - 玻璃纤维布、无卤环氧树脂、铜箔、无机填料
 - GLASS FABRIC, HALOGEN-FREE EPOXY RESIN, COPPER FOIL, INORGANIC FILLER
- 组成比例 (重量%)
COMPOSITION PROPORTION (WEIGHT %)

成份名称	含量	CAS NO.
COMPOSITION	CONTENT	CAS NO.
玻璃纤维布 GLASS FABRIC	3.5~34%	65997-17-3
无卤环氧树脂 HALOFEN-FREE EPOXY RESIN	7~30%	29690-82-2
反应型磷系阻燃剂(DOPO)		
REACTIVE PHOSPHORUS		
FLAME RETARDANT(DOPO)	2-5%	35948-25-5
铜箔 COPPER FOIL	4~80%	7440-50-8
无机填料 INORGANIC FILLER	1.5~8.5%	(机密)

總量 TOTAL	100%	

4. 急救措施 FIRST-AID MEASURES

- 皮肤 AFTER SKIN CONTACT
 - 清洁创伤后送医院
 - CLEAN EXPOSED SKIN GENTLY AND SEEK MEDICAL ATTENTION.

- 眼睛 AFTER EYE CONTACT
- 吸入物 AFTER INHALATION
- 摄入物 AFTER INGESTION
- 用流水冲洗 15 分钟，如过敏现象持续发生，请求助于医生
RINSE/FLUSH EXPOSED EYE(S) GENTLY USING WATER FOR 15 MINUTES; SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS OF IF CONCERNED.
- 如粉末烟尘太多，请转到有新鲜空气的地方，如没有呼吸，请进行人工呼吸
MOVE EXPOSED TO FRESH AIR.GIVE ARTIFICAL RESPIRATION IF NECESSARY.
- 如吞服大量，请致电医生
- SEEK MEDICAL ATTENTION IF SOLLOWED.

5. 消防措施 FIRE-FIGHTING MEASURES

- 危险特性 DANGEROUS CHARACTERISTICS
- 阻燃性 FLAME RETARDANCY
- 潜在危险性 POTENTIAL HAZARD
- 无 NONE
- UL94V-0
- 高温分解或者燃烧会释放出二氧化碳，氮气和 P2O5。依照本地污水处理排放的规章排放污水
THERMAL DECOMPOSITION OR COMBUSTION CAN LEAD TO RELEASE OF CO2 AND N2.
DRAIN WASTAGE ACCORDING TO LOCAL REGULATIONS.
- 燃烧产物 COMBUSTION PRODUCTS
- 灭火方法 FIRE-FIGHTING METHOD
- CO₂, 聚偏磷酸
- 常用灭火方法及灭火剂均可
WITH USUAL EXTINGUISHING METHOD AND AGENT
- 消防人员之特殊防护设备
SPECIAL PROTECTION EQUIPMENT FOR FIREFIGHTERS
- 穿戴防烟的呼吸用具
BREATHING EQUIPMENT IS REQUIRED

6. 泄露应急处理 ACCIDENTAL RELEASE MEASURES

不适用于固体材料。

NOT APPLICABLE, MATERIAL IS AN ARTICLE

- 个人防护 PERSONAL PRECAUTION
- 环境注意事项 ENVIRONMENTAL NOTES
- 清理方法 CLEANING METHOD
- 穿戴劳保用品
- 无 NONE
- 无 NONE

7. 操作处置与储存 HANDLING AND STORAGE

- 操作者防护及预防
PROTECTION AND PREVENTION FOR OPERATOR
- 火灾及爆炸预防
FIRE AND EXPLOSION PREVENTION
- 操作处置注意事项 HANDLING NOTES
- 不相容物质 INCOMPATIBLE SUBSTANCES
- 无 NONE
- 避免强氧化剂及腐蚀性物品 TO AVOID STRONG OXIDIZERS AND CORROSIVE SUBSTANCES
- 储存条件 STORAGE CONDITIONS
- 包装材料 PACKING MATERIALS
- 室温 ROOM TEMPERATURE
- 采用原有的包装
TO USE THE ORIGINAL PACKING MATERIALS

8. 接触控制/个体防护 EXPOSURE CONTROLS / PERSONAL PROTECTION

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| <ul style="list-style-type: none"> • 工程控制
ENGINEERING CONTROLS | <ul style="list-style-type: none"> • 使用当地除尘通风设计
USE LOCAL EXHAUST VENTILATION TO CONTROL DUST. |
| <ul style="list-style-type: none"> • 个人防护设备
PERSONAL PROTECTIVE EQUIPMENT | <ul style="list-style-type: none"> • 工作完后用水和肥皂冲洗
WASH HANDS WITH WATER AND SOAP AFTER WORKING. |
| <ul style="list-style-type: none"> • 皮肤保护
SKIN PROTECTION | <ul style="list-style-type: none"> • 长期性的接触，要配带手套和合适之工作服
USE GLOVES AND WORK CLOTHES WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT OCCURS. |
| <ul style="list-style-type: none"> • 眼睛保护
EYE PROTECTION | <ul style="list-style-type: none"> • 当加工材料时使用眼睛保护装置
USE APPROPRIATE EYE PROTECTION WHEN MACHINING MATERIAL. |
| <ul style="list-style-type: none"> • 呼吸保护
RESPIRATORY PROTECTION | <ul style="list-style-type: none"> • 当进行产生大量粉尘的操作时使用规范的粉尘防毒面罩
USE A NIOSH-APPROVED DUST RESPIRATOR |

9. 理化特性 PHYSICAL AND CHEMICAL PROPERTIES

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| <ul style="list-style-type: none"> • 物质状态及形状 APPEARANCE | <ul style="list-style-type: none"> • 固体、片状 SOLID, FLAKE |
| <ul style="list-style-type: none"> • 颜色 COLOR | <ul style="list-style-type: none"> • 黄色 YELLOW |
| <ul style="list-style-type: none"> • 气味 ODOUR | <ul style="list-style-type: none"> • 无 NONE |

10. 稳定性和反应性 STABILITY AND REACTIVITY

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|---|--|
| <ul style="list-style-type: none"> • 避免接触的条件 CONDITIONS TO AVOID | <ul style="list-style-type: none"> • 暴晒、雨淋、腐蚀性气体
EXPOSE TO DIRECT SUNLIGHT, RAIN, CORROSIVE GASES |
| <ul style="list-style-type: none"> • 避免接触的物品 SUBSTANCE TO AVOID | <ul style="list-style-type: none"> • 强氧化剂 STRONG OXIDIZERS |
| <ul style="list-style-type: none"> • 分解产物 DECOMPOSITION PRODUCTS | <ul style="list-style-type: none"> • 见 5.2 SEE 5.2 |

11. 毒理学信息 TOXICOLOGICAL INFORMATION

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| <ul style="list-style-type: none"> • 吸入 INHALATION | <ul style="list-style-type: none"> • 无 NONE |
| <ul style="list-style-type: none"> • 皮肤接触 SKIN | <ul style="list-style-type: none"> • 无 NONE |
| <ul style="list-style-type: none"> • 眼睛接触 EYE | <ul style="list-style-type: none"> • 无 NONE |
| <ul style="list-style-type: none"> • 摄入 INGESTION | <ul style="list-style-type: none"> • 无 NONE |

12. 生态学信息 ECOLOGICAL INFORMATION

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| <ul style="list-style-type: none"> • 生物蓄集性 BIOACCUMULATION | <ul style="list-style-type: none"> • 无 NONE |
| <ul style="list-style-type: none"> • 生物降解性 BIODEGRADABILITY | <ul style="list-style-type: none"> • 无 NONE |
| <ul style="list-style-type: none"> • 生态毒性 ECOTOXICITY | <ul style="list-style-type: none"> • 无 NONE |
| <ul style="list-style-type: none"> • 土壤中的流动性 FLUIDITY IN SOIL | <ul style="list-style-type: none"> • 无 NONE |
| <ul style="list-style-type: none"> • 其他不良效应 OTHER UNDESIRABILITY EFFECT | <ul style="list-style-type: none"> • 无 NONE |

13. 废弃处理 DISPOSAL CONSIDERATIONS

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| <ul style="list-style-type: none"> • 处置方法 METHODS OF DISPOSAL | <ul style="list-style-type: none"> • 根据当地环保法规
ACCORDING LOCAL ENVIRONMENTAL CONTROL LAWS |
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| • 残余物处置 WASTE DISPOSAL OF REMAINS | • 无特殊规定 NO SPECIAL PROVISIONS |
| • 污染性包装处置 DISPOSAL FOR
CONTAMINATED PACKAGES | • 无 NONE |

14. 运输信息 TRANSPORT INFORMATION

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| • 联合国编号 U.N. NO. | • 无资料 NONE |
| • 联合国运输名称 U.N TRANSPORT NAME | • 无资料 NONE |
| • 运输危害分类 TRANSPORT SCATHE
SORTATION | • 无资料 NONE |
| • 包装类别 ENCAPSULATION TYPE | • 无资料 NONE |
| • 海洋污染物 OCEAN CONTAMINATION | • 否 NONE |
| • 特殊运输注意事项
SPECIAL TRANSPORT AND NOTES | • 无 NONE |

15. 法规信息 REGULATION INFORMATION

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| • 适用法规 APPLICABLE REGULATIONS | • UNDER EEC REGULATIONS, RoHS 2.0, REACH |
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16.其它信息 OTHER INFORMATION

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| • 版本 VERSION | • 1.3 |
| • 修定日期 REVISE DATE | • 2023 年 6 月 12 日, 12 JUN, 2023 |