

MATERIAL SAFETY DATA SHEET

Product name: EMC KL-4500-HT

Manufacturer: HUAWEI ELECTRONICS CO., LTD

Contact : chenzhao@jshuawei.com TEL:086-518-5017734

SECTION 01 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: EPOXY MOLDING COMPOUND KL-4500-HT

Description: Black

Preform Powder

Health: 0 Fire: 0 Reactivity: 0 Special:

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

SECTION 02 COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Ingredients (% by Weight)(General)

Ingredient.	Percent Weight.
Silica	70% ~80%
Epoxy resin.	10% ~15%
Phenolic Resin(Hardener)	7% ~10%
Brominated Resin	1%~ 2%
Carbon Black	0.1% ~1%
Wax	0.5%~2%
Flame Retardant	1%~5%
Catalyst	<1%
Stress Absorbent	<5%
Coupling Agent.	<1%
Releasing Agent.	<1%

SECTION 03 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Warning! Contains silica, which may cause lung disease and/or cancer. Handling and/or processing of this material may generate a dust, which can cause mechanical irritation of the eyes, skin, nose and throat. Causes eye, skin and respiratory irritation. May cause allergic skin reaction.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Dust causes eye irritation.

SKIN CONTACT: Causes skin irritation on prolonged or repeated contact. Can cause allergic skin reactions. See "Toxicological Information" section (Section 10).

INHALATION: Dust: Can cause respiratory irritation. Possible cancer hazard based on inhalation studies in laboratory animals. See "Toxicological Information" section (Section 10).

INGESTION: Slightly toxic if ingested.

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SECTION 04

FIRST AID INFORMATION

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EYE: Flush eyes with plenty of water. Get medical attention if irritation persists.
SKIN: Wash exposed skin with soap and water. Get medical attention if irritation develops.
INHALATION: If adverse effects occur, remove to uncontaminated area.
INGESTION: If swallowed, drink plenty of water.

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SECTION 05

FIRE FIGHTING MEASURES

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EXTINGUISHING MEDIA: Water fog; small fires can be smothered with an inert material Dry chemical can be used.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Emits toxic fumes under fire conditions.
FIRE-FIGHTING EQUIPMENT: Firefighters should wear full bunker gear, including a Positive pressure self-contained breathing apparatus.
PRECAUTIONS: Keep container closed. Avoid heating above 200 for Prolonged periods.
HAZARDOUS COMBUSTION PRODUCTS: Combustion may generate toxic fumes containing hydrogen bromide, bromine gas, and other brominated compounds.

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SECTION 06

ACCIDENTAL RELEASE MEASURES

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Vacuum or sweep out; avoid producing dust.

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SECTION 07

HANDLING AND STORAGE

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HANDLING: Carton containers may be slippery when handling. Use with adequate ventilation. Keep container closed. Do not breathe vapors. Don't get in eyes. Don't get on skin or clothing. Avoid ingestion. Wash thoroughly after handling. Minimize dust generation and accumulation.
STORAGE: This product is temperature and moisture sensitive. Recommended storage temperature is below 5 for optimum shelf life. Keep closed and sealed when conditioning from 5 .
Keep away from animals, feed or food products.
SPECIAL PRECAUTIONS: Keep out of rains, sewers and waterways.

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SECTION 08

PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE AND ODOR: Solid. Grey. Phenol odor.
FLASHPOINT: Greater than 200 Set a flash; Closed Cup.
FLAMMABILITY CLASSIFICATION: FV-0.
UEL: Not determined
LEL: Not determined
AUTOIGNITION TEMPERATURE: Not determined
PH: Not applicable.
VAPOR PRESSURE: Negligible.

VAPOR DENSITY: Not applicable.
BOILING POINT: Not determined
MELTING POINT: Not determined
SOLUBILITY IN WATER: Negligible, below 0.1%.
SPECIFIC GRAVITY (WATER=1): 1.80g/cm³

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SECTION 09. STABILITY AND REACTIVITY
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STABILITY: Product is temperature and moisture sensitive. Material reacts slowly at temperatures above 10 .
CONDITIONS TO AVOID: Avoid temperatures over 30 until ready for use.
MATERIALS TO AVOID: Avoid strong oxidizing agents, strong acids and strong bases.
HAZARDOUS DECOMPOSITION: May evolve toxic vapors of formaldehyde, phenol, or brominated compounds upon heating or combustion.
HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur at room temperature.

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SECTION 10. TOXICOLOGICAL INFORMATION
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ACUTE TOXICITY DATA:
EYE IRRITATION: Testing not conducted. See Other Toxicity Data.
SKIN IRRITATION: Testing not conducted. See Other Toxicity Data.
DERMAL LD50: Testing not conducted. See Other Toxicity Data.
ORAL LD50: Testing not conducted. See Other Toxicity Data.
INHALATION LC50: Testing not conducted. See Other Toxicity Data.
OTHER TOXICITY DATA: This product contains silica, which has been shown to cause silicosis in humans that have been exposed for prolonged periods. Silicosis is a progressive fibrosis of the lung that can lead to severe emphysema. In addition, the International Agency for Cancer Research (IARC) has determined that silica inhaled in the form of SiO₂ from occupational sources is carcinogenic to human. which suggests that only specific forms of silica may be a hazard. Although silica is embedded within the matrix of the product, it may become airborne and, consequently, an inhalation hazard, if the solidified material (either before or after curing) is machined, polished, or otherwise manipulated in a manner that causes dust to form. Always ensure that the published occupational exposure limits for crystalline and other forms of silica are not exceeded. Antimony compounds cause a dermatitis known as "antimony measles." This form of dermatitis results in intense itching followed by skin eruptions in body areas that are moist due to perspiration. Based on these findings, the International Agency for Research on Cancer (IARC) has concluded that antimony trioxide is "possibly carcinogenic to humans." This product may contain carbon black. Carbon black has been shown to cause lung tumors in rats at high exposure concentrations. These concentrations exceed the capacity of the lung to clear the carbon black particles, thus resulting in significant toxicity. The International Agency for Research on Cancer (IARC) has evaluated carbon black and found it to be possibly carcinogenic to humans.

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SECTION 11 ECOLOGICAL INFORMATION
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Huawei Electronics has not conducted ecological testing on this product.

SECTION 12 **DISPOSAL CONSIDERATIONS**

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Disposal must be in accordance with applicable state, or local regulations.
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SECTION 13 **TRANSPORTATION INFORMATION**

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Transportation at below 10 .
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SECTION 14 **OTHER INFORMATION**

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This material safety data sheet and the information it contains are offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.
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