



# KING CORE ELECTRONICS INC.

Tel: 886-3-4698855 Fax: 886-3-4691395

Web Site: <http://www.kingcore.com.tw>

e-mail: [kc@mail.kingcore.com.tw](mailto:kc@mail.kingcore.com.tw)

## MATERIAL SAFETY DATA SHEET

MSDS No. SP-02

### 1 · CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### CHEMICAL PRODUCT NAME : EMI MULTILAYER CHIP

#### COMPANY INFORMATION

NAME OF MANUFACTURER : King Core Electronics Inc.

NAME OF SECTION :

ADDRESS : No. 269, Nan Fong Road, Ping Jhen, Tao Yuan Hsien, Taiwan

TELEPHONE NUMBER: 886-3-4698855

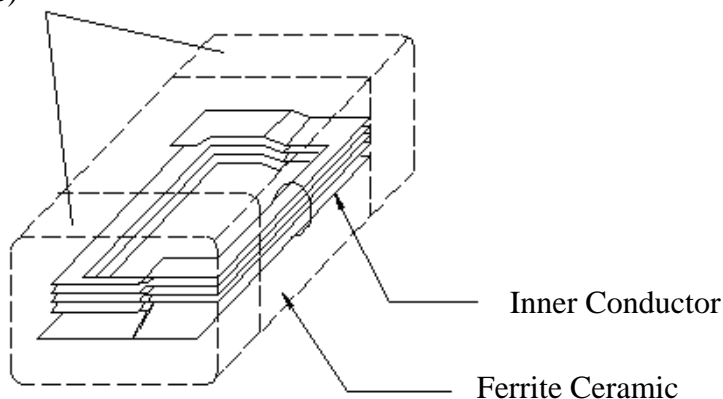
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### 2 · COMPOSITION · INFORMATION OR INGREDIENT

#### SUBSTANCE/MIXTURE :

Components-Chemical Name	wt. %	CAS No.
Iron Oxide	~50	1309-37-1
Nickel Oxide	~13	1313-99-1
Zinc Oxide	~20	1314-13-2
Copper Oxide	~10	1317-38-0
Bismuth oxide	~1.5	1304-76-3
Cobalt Oxide	~0.5	1308-04-9
Outer Conductor	~2.5	7440-31-5
Inner Conductor	~2.5	7440-22-4

Outer Conductor (Terminal Paste)



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Construction	Materials	Wt%	Lead (Pb)	L/F
Outer Conductor ( Terminal Paste)	Silver + Glass	2.5wt%	<1000ppm	OK
	Copper Plating		<90ppm	OK
	Nickel Plating		<90ppm	OK
	Matte Tin plating		<1000ppm	OK
Inner Conductor (Circuit)	Silver + Glass	2.5wt%	<90ppm	OK
Ferrite Ceramic Body	Iron Oxide	95wt%	<90ppm	OK
	Nickel Oxide		<90ppm	OK
	Zinc Oxide		<90ppm	OK
	Copper Oxide		<90ppm	OK
	Bismuth Oxide		<90ppm	OK
	Cobalt Oxide		<90ppm	OK

### 3、HAZARDS IDENTIFICATION

PHYSICAL AND CHEMICAL HAZARDS : NA

ADVERSE HUMAN HEALTH HAZARD : NA

ENVIRONMENTAL EFFECTS : NA

### 4、FIRST AID MEASURES

EYE CONTACT :

Rinse with good general purpose eye wash

SKIN CONTACT :

Wash off with soap and water

INHALATION :

Terminate exposure and move to fresh air. Seek medical advise

INGESTION :

Induce drinking of copious quantities of water. Seek medical advise

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## 5 · FIRE FIGHTING MEASURES

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FLASH POINT : Non flammable

EXPLOSION LIMIT : NA

FIRE-FIGHTING INSTRUCTIONS : NA

EXTINGUISH MEDIA : NA

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## 6 · ACCIDENTAL RELEASE MEASURES

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Sweep up into containers. Use appropriate protective clothing; gloves; safety glasses and dust masks if required

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## 7 · HANDLING AND STORAGE

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HANDLING :

Fragile, avoid collision and stress

STORAGE :

Store in clean, dry, well-ventilated environment. Avoid stress

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## 8 · EXPOSURE CONTROLS, PERSONAL PROTECTION

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EXPOSURE GUIDELINES : NA

ENGINEERING MEASURES : NA

PROTECTIVE EQUIPMENT : NA

RESPIRATORY PROTECTION : NA

EYE PROTECTION : Safety glasses

HAND, SKIN AND BODY PROTECTION : Protective glove, clothing

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## 9 · PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE : Black

BOILING POINT : NA

VAPOUR PRESSURE : NA

MELTING POINT : NA

SPECIFIC GRAVITY :  $5\text{g/cm}^3$

SOLUBILITY (IN WATER) : Insoluble

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## 10、STABILITY AND REACTIVITY

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CHEMICAL STABILITY : Stable

INCOMPATIBILITY WITH OTHER MAERIALS : Stable

HAZARDOUS DECOMPOSITION PRODUCTS : NA

HAZARDOUS POLYMERIZATION : NA

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## 11、TOXICOLOGICAL INFORMATION

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CORROSIVE AND IRRITANT PROPERTIES : NA

ALLERGENIC AND SENSITIZING EFFECTS : NA

ACUTE TOXICITY : NA

SUB-ACUTE TOXICITY : NA

CHRONIC TOXICITY : NA

CARCINOGENIC EFFECTS : NA

MUTAGENIC EFFECTS : NA

EFFECTS ON THE REPRODUCTIVE SYSTEM : NA

TERATOGENIC EFFECTS : NA

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## 12、ECOLOGICAL INFORMATION

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BIODEGRADABILITY : NA

BIOACCULATION : NA

FISH TOXICITY : NA

OTHER INFORMATION : NA

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## 13、DISPOSAL CONSIDERATIONS

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NA

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## 14、TRANSPORT INFORMATION

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UN CLASS : NA

UN NUMBER : NA



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## 15、REGULATORY INFORMATION

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### JAPAN STATUS

EXISTING CHEMICAL SUBSTANCES(MITI) : NA

### US STATUS

TSCA INVENTORY : NA

### EU STATUS

EINECS : NA

LABELLING ACCORDING TO EEC DIRECTIVES : NA

HAZARD SYMBOL : NA

RISK PHRASES : NA

SAFETY ADVICES : NA

Regulatory information with regard to this substance in your country or in your region

Should be examined by your own responsibility

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## 16、OTHER INFORMATION

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REFERENCES : No specific notes

The information herein is given in good faith , but no warranty , express or implied , is made ; Please consult the KINGCORE INC. for further information