

# Material Safety Data Sheet



Design Viitor into your FUTURE

## 1. Product & Manufacturer

Product Name:	MOSFET
Product Number:	VDM5E6N059LK (DFN5060)
Supplier or Manufacturer:	Viitor Semiconductor Co., Ltd.
Address:	Rm. A, 3F., No. 86, Minquan Rd., Xindian Dist., New Taipei City 231023, Taiwan
Contact Person:	Kem Yeh
TEL. :	+886-2-2218-2111
Date:	2023/2/22

## 2. Composition/Information on Ingredients

Material	Content (per product)wt%	Chemical Composition	CAS No	Content(%) (per homogeneous material)
Plating	5.41	Sn	7440-31-5	100
Epoxy molding	28.99	Epoxy Resin A	Trade Secret	4.3
		Epoxy Resin B	Trade Secret	3.8
		Phenol Resin	Trade Secret	2.9
		Silica(Amorphous) A	60676-86-0	84.92
		Silica(Amorphous) B	7631-86-9	3.81
Bonding wire	3.27	Carbon Black	1333-86-4	0.27
		AL	7429-90-5	100
		Cu	7440-50-8	100
Solder wire	3.88	Pb	7439-92-1	92.5
		Sn	7440-31-5	5
		Ag	7440-22-4	2.5
Lead frame	55.44	Cu	7440-50-8	96.775
		Fe	7439-89-6	2.484
		Pb	7439-92-1	0.005
		P	7723-14-0	0.073
		Zn	7440-66-6	0.123
		Ag	7440-22-4	0.54
Dice	3.01	Si	7440-21-3	100.00

## 3. Hazards Identification

Health effect(s): N/A
Environmental effect(s): N/A
Physical and chemical hazard(s): N/A
Special hazard(s): N/A

## 4. First-aid Measures

Classification by ways of exposition:
Inhaled: N/A                      Skin contact: N/A                      Ingested: N/A
Harmful effect(s) and symptom(s): N/A
Protection to the first-aid personnel: N/A
Note to physicians: N/A

## 5. Fire-fighting Measures

Suitable fire extinguisher(s): Any extinguishant including CO <sub>2</sub> , dry powder, foam is suitable.
Hazardous material(s) released during fire-fighting: N/A
Precaution: None

#### 6. Accidental Leak Measures

Personal precaution: N/A  
Environmental precaution: N/A  
Method(s) for cleaning up: N/A

#### 7. Safe Handling and Storage Methods

Handling: No special requirement in handling the goods. Do not discard arbitrarily.  
Storing condition: Temperature: 10-40°C, Humidity: 40-80%; Storage time: One year

#### 8. Exposition Preventive Measures

Project control: N/A  
Personal precaution: N/A

#### 9. Physical and Chemical Properties

State of matter: Solid	Appearance: N/A	Odor: None
Colour: N/A	pH value: N/A	Boiling point/range: N/A
Solubility in water: Not soluble	Fire point: N/A	Decomposition temperature: N/A
Density: N/A	Autoignition temperature: N/A	Vapor pressure: N/A
Flash point: N/A	Test method: N/A	Vapor density: N/A

#### 10. Stability and Reactivity

Stability: Stable Possible reaction under special condition: N/A Conditions to avoid: N/A	Material(s) to avoid: N/A Hazardous product(s) released upon decomposition: N/A
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#### 11. Toxicological Information

Acute toxicity: N/A Local effect(s): N/A Special effect(s): N/A	Sensitization: N/A Chronic toxicity or long-term toxicity: N/A
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#### 12. Ecological Information

Possible effect(s) on environment/environmental distribution: N/A

#### 13. Disposal

Way of disposal: Follow the regulations of the local government.

#### 14. Transportation

Overseas regulation(s) on transportation: N/A	UN code: N/A
Local regulation(s) on transportation: N/A	Way of transportation and precaution: This is not a hazardous product. Waterproof, sunproof and no excessive extrusion.

#### 15. Regulations

Applicable regulation(s): RoHS Directive (2011/65/EC)

#### 16. Other Information

Reference to MSDS: N/A  
Other information: N/A