

# Material Safety Data Sheet

Revised : Sep,5, 2021

Replaces: Jan,1, 2021

## 1. Product Chemical Content/Compound

SMD Total Component Weight: 0.44mg

Component	Material	Substance in Material	Estimated Avg Weight(mg)	Content	CAS No.
Molding Compound	Epoxy Resin 0.1905mg	Solid Epoxy Resin	0.0095	5.00%	29690-82-2
		Phenol Resin	0.0076	4.00%	9003-35-4
		Metal Hydroxide	0.0514	27.00%	21645-51-2
		Crystalline Silica	0.0057	3.00%	14808-60-7
		Carbon Black	0.0019	1.00%	1333-86-4
		Fused Silica(SiO <sub>2</sub> )	0.1143	60.00%	60676-86-0
Lead Frame	Alloy42 0.2017mg	Copper(Cu)	0.0176	8.74%	7440-50-8
		Iron(Fe)	0.0875	43.40%	7439-89-6
		Nickel(Ni)	0.0600	29.77%	7440-02-0
		Silver(Ag)	0.0365	18.09%	7440-22-4
Die	Si 0.0337mg	Silicon(Si)	0.0337	100.00%	7440-21-3
Plating Layer	Sn 0.0111mg	Tin(Sn)	0.0111	100.00%	7440-31-5
Gold Wire	Au 0.003mg	Gold(Au)	0.0030	100.00%	7440-57-5

## 2. Summary of Hazardous Substances

N/A

Note: Ingredients of this product don't contain Paraformaldehyde, Organic tin compound, Azocompounds, TBBPA, PFOS.

## 3. Medical Emergency

N/A

## 4. Fire Precautions

N/A

## 5. Measures for Leakage

N/A

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## 6. Handling and Storage

### Handling:

- Handle with care to protect products from shock-induced breakage ;
- Unpack products in clean room. Do not handle with bare hands.

### Storage:

- Store at room temperature  $T_{stg}=25\pm 5^{\circ}\text{C}$  ;
  - Store at room humidity  $RH\leq 55\%$ .
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## 7. Product Protection

ESD packing, Same polarity alignment and prevention of exposure/distortion.

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## 8. Physical/Chemical Properties

- Black solid material
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## 9. Stability and Reactivity

Stable and Non-reactivity.

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## 10. Toxicity Information

No data available.

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## 11. Environmental Impact Information

- Harmless to environment.
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## 12. Disposal of Product

- Disposal of product must conform to disposal regulations and restrictions by local government.
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## 13. Transportation of Product

- As the product is likely to be damaged by ESD and distortion, use cushioning and anlistatig material for transport packaging. When loading, to keep the cargo from breakage by collapse.

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## 14. Regulatory Information

### Suitable Regulation:

- Ingredients of this product are compliant with Rohs requirement.
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## 15. Other

Even though we provide this MSDS based on the latest materials/information/data available during the creation, we can not guarantee to its completeness and accuracy due to the fact that the data has been compiled based on the ranges provided and some information that may not have been provided by the raw material suppliers to protect their business proprietary information. Based on the above considerations, this information is provided only as estimates of the average weight of these parts and the anticipated significant toxic metals components. These estimates do not include trace levels of dopants and metal materials contained within silicon devices in the finished products. This MSDS is supplied for informational provision only and we cannot be held responsible for any details in this document. For your safety and keeping qualities of product, please give special attention to the treatment of product.

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