

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description: Surface Mount Devices

Package: SOT23

Creation date: 2020-10-31

Revision: E

Responsible Section: QA & R Department

Manufacturer: LESHAN RADIO COMPANY,LTD.

Address: 287 West People Road, Leshan, Sichuan, China

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2. Product Chemical Content/Compound

Total Component Weight: 8.13 mg

Part Name	Homogeneous Name	Homogeneous Avg Weight(mg)	Substance in Material	CAS No.	Substance Avg Weight(mg)	% of Substance
Molding Compound	Epoxy Resin	4.9	Silicon dioxide	7631-86-9	3.4300	70.000%
			Phenol-formaldehyde polymer	9003-35-4	0.3920	8.000%
			Boron zinc hydroxide oxide	138265-88-0	0.2450	5.000%
			1,3,5-triazine-2,4,6(1H,3H,5H)-trione, compound with 1,3,5-triazine-2,4,6-triamine(1:1)	37640-57-6	0.3430	7.000%
			zinc oxide	1314-13-2	0.0245	0.500%
			carbon black	1333-86-4	0.0245	0.500%
			3-trimethoxysilyl propane-1-thiol	4420-74-0	0.0245	0.500%
			Epoxy Cresol Novolac Resin	29690-82-2	0.4165	8.500%
Lead Frame	Alloy42	2.92	Fe	7439-89-6	1.3972	47.850%
			Ni	7440-02-0	1.2118	41.500%
			Cu	7440-50-8	0.2862	9.800%
			Mn	7439-96-5	0.0175	0.600%
			Si	7440-21-3	0.0058	0.200%
			Al	7429-90-5	0.0015	0.050%
Die	Si	0.16	Silicon(Si)	7440-21-3	0.160	100.00%
Plating Layer	Sn	0.14	Tin(Sn)	7440-31-5	0.140	100.00%
Wire Bond	Cu	0.01	Copper(Cu)	7440-50-8	0.010	100.00%

3. Summary of Hazardous Substances

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

4. Medical Emergency

N/A

5. Fire Precautions

N/A

6. Measures for Leakage

N/A

7. 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 $T_{stg} \leq 35^{\circ}\text{C}$;
- Store at room humidity $RH \leq 70\%$.

8. Product Protection

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

9. Physical/Chemical Properties

- Black solid material

10. Stability and Reactivity

- Stable and Non-reactivity.

11. Toxicity Information

- No data available.

12. Environmental Impact Information

- Harmless to environment.

13. Disposal of Product

- Disposal of product must conform to disposal regulations and restrictions by local government.

14. Transportation of Product

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

15. Regulatory Information

Suitable Regulation:

- Ingredients of this product are compliant with RoHS requirement.

16. Other

Even though we provide this MSDS based on the latest materials/information/data available during the creation, we cannot 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.