

## Material Safety Data Sheet (MSDS)

For

**LT7680A-R,LT7680B-R,LT7681,LT7683,LT7686,LT7381,LT268A,  
LT32U02,LT32A01,LT7688,LT7689,LT32U03B,LT268C,LT5926B,  
LT5928A,LT6101A,LT6101B,LT776,LT268D,LT269**

**Applicant:** ShenZhen LeveTop Semiconductor Co.,Ltd

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**Requested** Regulation (EC) No.1907/2006&1272/2008

Signed for and on behalf of  
Ningbo Hatek Co., Ltd.



Milse Xie  
Laboratory Manager

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## Section 1 - Chemical Product and Company Identification

**Product Name:** LT7680A-R,LT7680B-R,LT7681,LT7683,LT7686,LT7381,LT268A,LT32U02,LT32A01,LT7688,LT7689,LT32U03B,LT268C,LT5926B,LT5928A,LT6101A,LT6101B,LT776,LT268D,LT269

**Model No.:** /

**Tel:** 13172618170

**Fax:** (0769) 23077097

**Chemical Uses:** No toxicity, no irritation

## Section 2 –Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008**

This mixture does not meet the criteria for classification in according with Regulation (EC) No.1272/2008.

### 2.2 Label elements

**Labeling according to Regulation (EC) No. 1272/2008**

This mixture does not need to be labeled in according with Regulation (EC) No.1272/2008.

### Hazard statements:

This mixture does not meet the criteria for Hazard statements.

### Precautionary statements:

This mixture does not meet the criteria for Precautionary statements.

### 2.3 Other hazards:

**Results of PBT and vPvB assessment**

This mixture does not meet the criteria for PBT and vPvB.

## Section 3 – Composition/Information on Ingredient

Chemical Name	CAS No.	Composition (in% by weight)
Epoxy resin	Proprietary	0.66%-6.66%
Phenolic resin	Proprietary	0.89%-2.67%
Acrylic resin	Proprietary	0.2%-0.7%
Carbon black	1333-86-4	Max:0.1%
Silica (crystalline)	60676-86-0	37.78%-42.22%
Copper	7440-50-8	38.17%-43.97%
Gold	7440-57-5	Max:4.5%
Silver	7440-22-4	< 2.22%
Silicon	7440-21-3	Max:6.67%

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## Section 4 - First Aid Measures

**After skin contact:** Clean with soapy water.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After ingestion:** If swallowed, dilute with water and induce vomiting. Never give fluids or induce vomiting to an unconscious person or person having convulsions. Seek medical attention immediately in this case.

## Section 5 – Fire and Explosion Hazard Data

**Extinguishing media:** Small exergy CO<sub>2</sub>, dry powder fire extinguishers, sand or clay, fire foam fire extinguisher, if involving charged device, preferably using dry powder fire extinguisher.

**Specific hazards arising from the substance or mixture:** Slight fire hazard when exposed to heat or flame. May expansion or decompose explosively when heated or involved in fire. Development of hazardous combustion gases or vapor possible in the event of fire.

**Advice for fire-fighters:** As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Fight fire from a safe distance, with adequate cover. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Section 6 - Accidental Release Measures

**Environmental Protection:** Isolation leakage polluted area, restricting access. Cut off the fire source.

Recommended emergency personnel wearing a dust mask (full cover), wearing protective clothing. Leakage areas keep ventilation.

**Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust. Avoid vapour formation.

**Procedure for Cleaning/Collecting:** Contain the spilled material using non-combustible absorbent and collect for disposal in accordance with local regulations using specified containers.

## Section 7 - Handling and Storage

**Handling Precautions:** The use of human or corresponding mechanical equipment for foam stacking and waste recycling. Disposal of this material must be made in accordance with Federal, State and Local regulations.

**Storage Precautions:** Products must be stored in place of dike. Maintain warehouse cool, dry, ventilated, not subject to direct sunlight. Warehouse is strictly prohibited fireworks, from all sources of water, and equipped with the appropriate variety of fire equipment.

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## Section 8 - Exposure Controls, Personal Protection

**Control parameters:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Engineering controls:** Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating /lighting/equipment. Set up emergency exit and necessary risk-elimination area. Handle in accordance with good industrial hygiene and safety practice.

**Eye protection:** Wear chemical safety glasses.

**Body protection:** Wear protective overalls on infiltration.

**Hand protection:** Wash hands after completing work. Gloves recommended.

**Other protection:** 1. Work site prohibit smoking, eating and drinking; 2. Work complete, thorough cleaning; 3. Separate storage of toxic pollution by the clothes, washed the standby; 4. Pay attention to personal hygiene.

## Section 9 - Physical and Chemical Properties

**Physical State:** solid

**Odor:** Odorless

**Colour:** Black

**PH value:** N/A

**Vapor Pressure:** N/A

**Melting point:** N/A

**Boiling point:** N/A

**Flammability(solid, gas):** N/A

**Vapor Density (Air = 1):** N/A

**Decomposition Temperature:** N/A

**Evaporation rate (butyl acetate = 1):** N/A

**Natural temperature:** N/A

**Density (water = 1):** N/A

**Flash Point:** N/A

**Other information:** N/A

## Section 10 - Stability and Reactivity

**Stability:** Normal conditions and stability.

**Avoid material:** Dimethyl benzene, Acetone and other solvents.

**Avoid contact with conditions:** 1. Avoid heat, fire environment; 2. Avoid strong oxidizing environment; 3. Avoid exposure to strong acidic environment.

**Aggregate hazard:** N/A

**Decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## Section 11 - Toxicological Information

### Acute toxicity:

Component	Cas No.	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
Epoxy resin	Proprietary	438mg/kg(rat)	No information available	No information available
Phenolic resin	Proprietary	438mg/kg(rat)	No information available	No information available
Acrylic resin	Proprietary	438mg/kg(rat)	No information available	No information available
Carbon black	1333-86-4	438mg/kg(rat)	No information available	No information available
Silica (crystalline)	60676-86-0	438mg/kg(rat)	No information available	No information available
Copper	7440-50-8	438mg/kg(rat)	No information available	No information available
Gold	7440-57-5	438mg/kg(rat)	No information available	No information available
Silver	7440-22-4	438mg/kg(rat)	No information available	No information available
Silicon	7440-21-3	438mg/kg(rat)	No information available	No information available

### Carcinogenicity:

Component	Cas No.	IARC	NTP
Epoxy resin	Proprietary	Not Listed	Not Listed
Phenolic resin	Proprietary	Not Listed	Not Listed
Acrylic resin	Proprietary	Not Listed	Not Listed
Carbon black	1333-86-4	Not Listed	Not Listed
Silica (crystalline)	60676-86-0	Not Listed	Not Listed
Copper	7440-50-8	Not Listed	Not Listed
Gold	7440-57-5	Not Listed	Not Listed
Silver	7440-22-4	Not Listed	Not Listed
Silicon	7440-21-3	Not Listed	Not Listed

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**Others:**

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity(additional)</b>	Based on available data, the classification criteria are not met

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## Section 12 - Ecological Information

### Acute aquatic toxicity:

Component	Cas No.	Fish	Crustaceans	Algae
Epoxy resin	Proprietary	No information available	No information available	No information available
Phenolic resin	Proprietary	No information available	No information available	No information available
Acrylic resin	Proprietary	No information available	No information available	No information available
Carbon black	1333-86-4	No information available	No information available	No information available
Silica (crystalline)	60676-86-0	No information available	No information available	No information available
Copper	7440-50-8	No information available	No information available	No information available
Gold	7440-57-5	No information available	No information available	No information available
Silver	7440-22-4	No information available	No information available	No information available
Silicon	7440-21-3	No information available	No information available	No information available

### Chronic aquatic toxicity:

Component	Cas No.	Fish	Crustaceans	Algae
Epoxy resin	Proprietary	No information available	No information available	No information available
Phenolic resin	Proprietary	No information available	No information available	No information available
Acrylic resin	Proprietary	No information available	No information available	No information available
Carbon black	1333-86-4	No information available	No information available	No information available
Silica (crystalline)	60676-86-0	No information available	No information available	No information available
Copper	7440-50-8	No information available	No information available	No information available
Gold	7440-57-5	No information available	No information available	No information available

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Silver	7440-22-4	No information available	No information available	No information available
Silicon	7440-21-3	No information available	No information available	No information available

**Persistence and degradability:**

Component	Cas No.	Persistence (water/soil)	Persistence (air)
Epoxy resin	Proprietary	Low	Low
Phenolic resin	Proprietary	Low	Low
Acrylic resin	Proprietary	Low	Low
Carbon black	1333-86-4	Low	Low
Silica (crystalline)	60676-86-0	Low	Low
Copper	7440-50-8	Low	Low
Gold	7440-57-5	Low	Low
Silver	7440-22-4	Low	Low
Silicon	7440-21-3	Low	Low

**Bioaccumulative potential:**

Component	Cas No.	Bioaccumulative potential	comments
Epoxy resin	Proprietary	No information available	No information available
Phenolic resin	Proprietary	No information available	No information available
Acrylic resin	Proprietary	No information available	No information available
Carbon black	1333-86-4	No information available	No information available
Silica (crystalline)	60676-86-0	No information available	No information available
Copper	7440-50-8	No information available	No information available
Gold	7440-57-5	No information available	No information available
Silver	7440-22-4	No information available	No information available
Silicon	7440-21-3	No information available	No information available

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**Mobility in soil:**

Component	Cas No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (KOC)
Epoxy resin	Proprietary	Low	No information available
Phenolic resin	Proprietary	Low	No information available
Acrylic resin	Proprietary	Low	No information available
Carbon black	1333-86-4	Low	No information available
Silica (crystalline)	60676-86-0	Low	No information available
Copper	7440-50-8	Low	No information available
Gold	7440-57-5	Low	No information available
Silver	7440-22-4	Low	No information available
Silicon	7440-21-3	Low	No information available

**Results of PBT and vPvB assessment:**

Component	Cas No.	Results of PBT and vPvB assessment ( according to (EC) No 1907/2006)
Epoxy resin	Proprietary	not PBT/vPvB
Phenolic resin	Proprietary	not PBT/vPvB
Acrylic resin	Proprietary	not PBT/vPvB
Carbon black	1333-86-4	not PBT/vPvB
Silica (crystalline)	60676-86-0	not PBT/vPvB
Copper	7440-50-8	not PBT/vPvB
Gold	7440-57-5	not PBT/vPvB
Silver	7440-22-4	not PBT/vPvB
Silicon	7440-21-3	not PBT/vPvB

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## Section 13 - Disposal Considerations

**Waste characteristics:** Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

**Waste disposal method:** Follow federal, state and local department all provision about health and abandoned handling.

**Waste Note:** N/A

## Section 14 - Transport Information

**Transportation Note:** Transport ago, examine containers is complete, seal or not, ensure that the container does not leak, does not collapse, and does not fall and no damage. Strictly prohibited with oxidants, food chemicals and other mixed loading mixed transportation. Conveyance must be thoroughly cleaned, disinfected, or not shipped with other goods.

**IMDG-CODE:** NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

**ICAO/IATA-DG:** NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

**UN-ADR:** NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

## Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Safety, health and environmental regulations/legislation specific for the substance or mixture:** N/A

**Chemical Safety Assessment:** N/A

## Section 16 - Additional Information

**References:** N/A

**Guidance Department:** N/A

**Data Audit Unit:** N/A

**Edit Description:** N/A

### Abbreviations and acronyms:

CAS - Chemical Abstracts Service

IARC - International Agency for Research on Cancer

LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

PBT - Persistent, Bioaccumulative, Toxic

vPvB - very Persistent, very Bioaccumulative

IMDG - International Maritime Dangerous Goods

ICAO/IATA - International Civil Aviation Organization/ International Air Transportation Association

UN - The United Nations

### Disclaimer:

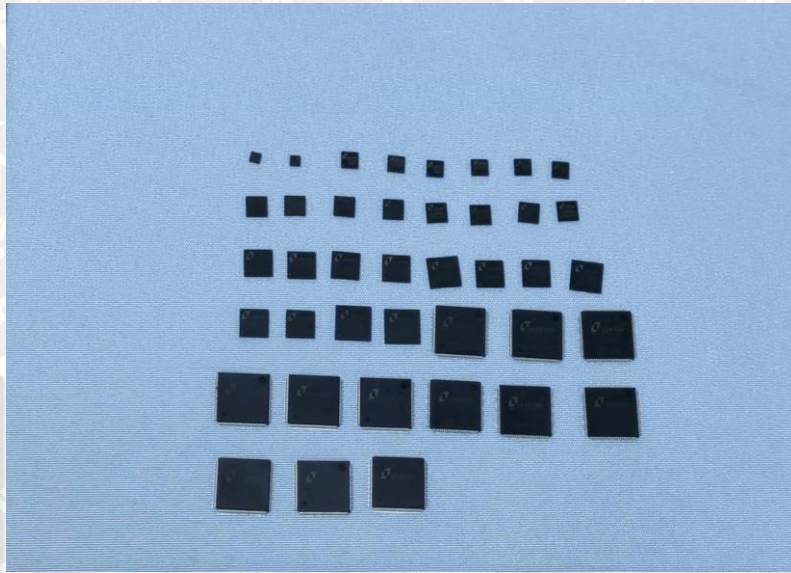
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**Sample Photo:**



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