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Material Safety Data Sheet (MSDS)

For

Chip

Applicant: ShenZhen LeveTop Semiconductor Co.,Ltd

Address: Room 201, 2nd floor, Building 8, Xinhe 4th Road, Pingshan Street,

Pingshan District, Shenzhen

Prepared by: Ningbo Hatek Co., Ltd.

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

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



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Section 1 - Chemical Product and Company Identification

Product Name: Chip

Model No.: LT7680A-R,LT7680B-R,LT7680+,LT7681,LT7683,LT7686,LT7381,LT268A,LT32U02,LT32A01, LT7688,LT7689,LT32U03B,LT268C,LT5926B,LT5928A,LT6101A,LT6101B,LT776,LT268D,LT269,LT268B,

LT32U03A,LT3688,LT32U03C

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.

2.2Label 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.



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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%

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 CO₂, 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.



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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.	LD50(oral)	LD50(dermal)	LC50(inhalation,4h)
Epoxy resin	Dransiatory	400	No information	No information
	Proprietary	438mg/kg(rat)	available	available
Phenolic resin	Dransiatory	100 / - / /)	No information	No information
	Proprietary	438mg/kg(rat)	available	available
Acrylic resin	Droprioton	100 // - / /	No information	No information
	Proprietary	438mg/kg(rat)	available	available
Carbon black	1222.06.4	True True	No information	No information
	1333-86-4	438mg/kg(rat)	available	available
Silica (crystalline)	60676-86-0	438mg/kg(rat)	No information	No information
	00070-00-0		available	available
Copper	7440-50-8 438mg/kg(ra		No information	No information
	7440-50-6	438mg/kg(rat)	available	available
Gold	7440 57 5	420	No information	No information
CE TE TE	7440-57-5 438mg/kg(rat)		available	available
Silver	7440 22 4	400 (1(1(1)	No information	No information
L 1/L 1/L	7440-22-4	438mg/kg(rat)	available	available
Silicon	7440-21-3	400 (1(11)	No information	No information
7440-21-3 43		438mg/kg(rat)	available	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



Aspiration hazard

Germ cell mutagenicity

Reproductive toxicity(additional)

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Others:	<u>''' </u>
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

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
poxy resin		No information	No information	No information
	Proprietary	available	available	available
Phenolic resin	Dropriotory	No information	No information	No information
	Proprietary	available	available	available
Acrylic resin	Droprioton	No information	No information	No information
	Proprietary	available	available	available
Carbon black	4222.00.4	No information	No information	No information
	1333-86-4	available	available	available
Silica (crystalline)	00070 00 0	No information	No information	No information
	60676-86-0	available	available	available
Copper	7440 50 9	No information	No information	No information
	7440-50-8	available	available	available
Gold	7440.57.5	No information	No information	No information
	7440-57-5	available	available	available
Silver	7440.00.4	No information	No information	No information
	7440-22-4	available	available	available
Silicon	7440.04.0	No information	No information	No information
	7440-21-3	available	available	available

Chronic aquatic toxicity:

Component	Cas No.	Fish	Crustaceans	Algae
Epoxy resin	Daniel Co.	No information	No information	No information
	Proprietary	available	available	available
Phenolic resin	Dropriotory	No information	No information	No information
	Proprietary	available	available	available
Acrylic resin	Proprietary	No information	No information	No information
	Proprietary	available	available	available
Carbon black	1333-86-4	No information	No information	No information
	1333-66-4	available	available	available
Silica (crystalline)	60676-86-0	No information	No information	No information
A E A E I	60676-66-0	available	available	available
Copper	7440-50-8	No information	No information	No information
	7440-50-6	available	available	available
Gold	7440 57 5	No information	No information	No information
	7440-57-5	available	available	available



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Silver	7440-22-4	No information available	No information available	No information available
Silicon	7440-21-3	No information	No information	No information
THE AE	7440 21 3	available	available	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	Drawistani	No information	No information
	Proprietary	available	available
Phenolic resin	Dropriotory	No information	No information
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Proprietary	available	available
Acrylic resin	Dropriotory.	No information	No information
it ist ist.	Proprietary	available	available
Carbon black	1222 06 4	No information	No information
	1333-86-4	available	available
Silica (crystalline)	60676-86-0	No information	No information
1 21 12 11 21		available	available
Copper	7440-50-8	No information	No information
AE AE AE	7440-50-6	available	available
Gold	7440-57-5	No information	No information
	7440-57-5	available	available
Silver	7440-22-4	No information	No information
	7440-22-4	available	available
Silicon	7440 24 2	No information	No information
	7440-21-3	available	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

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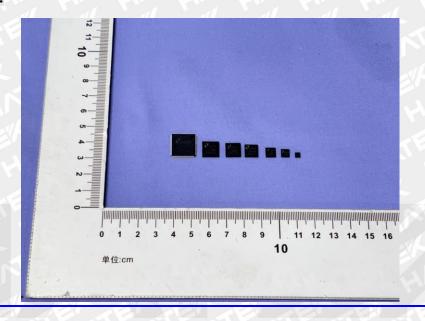
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