
SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name	LINQSOL™ EMC-7535
Applications:	Black epoxy molding compound for the encapsulation of high-power semiconductor devices
Advised Against	No further relevant information available
Supplier Name	Caplinq Europe BV

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SECTION 2. HAZARDS IDENTIFICATION

PROPOSED CLASSIFICATION: Not hazardous.

HAZARD PICTOGRAMS: None.

HAZARD STATEMENTS: None.

PRECAUTIONARY STATEMENTS: None.

POTENTIAL ADVERSE HUMAN HEALTH EFFECTS AND SYMPTOMS: No data available.

OTHER HAZARDS: This substance/mixture does not meet the PBT or vPvB criteria outlined in Annex XIII of the REACH regulation. The mixture is free from substances listed under Article 59(1) of REACH for having endocrine-disrupting properties. It is also not identified as having endocrine-disrupting properties per the criteria outlined in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3. INGREDIENT COMPOSITION

No.	Component	CAS Reg. No.	Proportion (%)
1	Silicon dioxide (Vitreous)	60676-86-0	70-90
2	Phenol polymer with 4,4'-bis(methoxymethyl)1,1'-bisphenyl	205830-20-2	1-4
3	Carbon black	1333-86-4	0.1-0.5
4	Ethene, homopolymer	9002-88-4	0.1-0.5
5	Methyltrimethoxysilane	1185-55-3	0.1-0.5
6	Benzenamine, N-[3-(trimethoxysilyl)propyl]	3068-76-6	0.1-0.5
7	Carnauba wax	8015-86-9	0.1-0.3
8	Fatty acids, montan-wax, ethylene esters	73138-45-1	0.05-0.02
9	Phenol	108-95-2	0.01-0.2

SECTION 4. FIRST AID MEASURES

EYE CONTACT

- Immediately flush with plenty of water for at least 15 min.

SKIN CONTACT

- Immediately flush with plenty of water for at least 15 min.

INHALATION

- Move the individual to fresh air and ensure their comfort for normal breathing.

INGESTION

- Get medical attention immediately.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- Water spray, dry powder, or foam.

FIRE FIGHTING PROCEDURE

- Toxic fumes may be released in case of fire. Self-contained breathing apparatus and protective clothing should be worn in extinguishing large fires involving chemicals.
- Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

- As a safety precaution, use protective equipment and adhere to emergency procedures. Avoid contact with the eyes. Do not take it internally.

ENVIRONMENTAL PRECAUTIONS

- Prevent from spreading or entering into drains, ditches, or rivers by using sand, earth, or other appropriate barriers.

LEAKAGE OR SPILL

- If spilled material can be pumped and can be safely recovered, store it in an appropriate container. Use a suitable absorbent to clean up the remaining spillage. Consider a final cleaning using methods such as steam, solvents, or detergents if needed. Dispose of saturated absorbents or cleaning materials properly to prevent potential spontaneous heating.

SECTION 7. HANDLING AND STORAGE

HANDLING

- Use with adequate ventilation. Avoid contact with the eyes. Exercise good industrial hygiene practice. Wash hands thoroughly after handling, especially before eating, drinking, or smoking.

STORAGE

- Store in a well-ventilated, cool area away from oxidizing materials.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS

No.	Components	Standards	Reference
1	Silicon dioxide (Vitreous)	5 mg/m ³ /0.1 mg/m ³	OSHA ¹ /ACGIH ²
2	Phenol polymer with 4,4'-bis(methoxymethyl)1,1'-bisphenyl	Not Established	OSHA/ACGIH
3	Carbon black	3.5 mg/m ³ /0.1 mg/m ³	OSHA/ACGIH
4	Ethene, homopolymer	Not Established	OSHA/ACGIH
5	Methyltrimethoxysilane	Not Established	OSHA/ACGIH
6	Benzenamine, N-[3-(trimethoxysilyl)propyl]	Not Established	OSHA/ACGIH
7	Carnauba wax	Not Established	OSHA/ACGIH
8	Fatty acids, montan-wax, ethylene esters	Not Established	OSHA/ACGIH
9	Phenol	19 mg/m ³ (5 ppm)/19 mg/m ³ (5 ppm)	OSHA/ACGIH

¹Occupational Safety and Health Administration (OSHA) 8-hour total weight average (TWA) permissible exposure limit (PEL)

²American Conference of Governmental Industrial Hygienists (ACGIH) 8-hour total weight average (TWA) threshold limit value (TLV)

VENTILATION

Use general exhaust ventilation to meet exposure limit requirements.

PERSONAL PROTECTION

- Respiratory Protection: When ventilation is inadequate, use appropriate respiratory protection.
- Eye Protection: Use appropriate eye protective gear, with safety glasses as the minimum requirement.
- Skin and body protection: Wear suitable protective clothing, including protective gloves.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid black pellets
Odor	Odorless
pH	Not Available
Freezing/Boiling Point	Not Applicable
Flash Point	Not Applicable
Flammability	Not Flammable
Vapour Pressure (mmHg at 25 °C)	Not Available
Explosive Limit	Not Applicable
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Available

Solubility	Insoluble
Density	1.95

SECTION 10. STABILITY & REACTIVITY

Chemical Stability and Reactivity: Stable and non-reactive under ordinary conditions of use and storage.

Materials and Conditions To Avoid: None under recommended storage and handling conditions.

Hazardous Polymerization: No hazard at room temperature.

Hazardous Decomposition Products: Under normal storage and usage conditions, there should be no hazardous decomposition products.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity (Oral, Dermal, and Inhalation): Not classified.

Carcinogenicity: Not classified.

Reproductive Toxicity: Not classified.

Chronic Effects: No information found.

Specific Target Organ Toxicity (Single and Repeated Exposure): Not classified.

Aspiration Hazard: Not classified.

Inhalation: No expected significant effect.

Skin Contact: No expected significant irritation.

Eye Contact: No hazard.

Endocrine disrupting properties: The product is free from substances listed under Article 59(1) of REACH for having endocrine-disrupting properties. It is also not identified as having endocrine-disrupting properties per the criteria outlined in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12. ECOLOGICAL INFORMATION

Ecological Toxicity: The product does not pose harm to aquatic organisms or cause long-term adverse effects in the environment.

Mobility: No information found.

Bioaccumulation: No significant bioaccumulation potential.

Persistence and biodegradability: No information found.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of waste needs to be carried out at the city, state, or federally permitted disposal facility. Handle in accordance with applicable regulations and/or local authorities.

SECTION 14. TRANSPORT INFORMATION

Land transport ADR/RID (Cross-border)

ADR, RID Class: Not subject to ADR classification.

Maritime transport IMDG

IMDG Class: Not subject to IMDG classification.

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class: Not subject to IATA regulations.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized safety officer. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15. REGULATORY INFORMATION

The product is free from substances restricted by REACH Annex XVII, substances on the REACH candidate list at concentrations $\geq 0.1\%$, substances listed in REACH Annex XIV, substances regulated by EU No 649/2012 on the export and import of hazardous chemicals, and substances governed by EU No 2019/1021 on persistent organic pollutants.

SECTION 16. OTHER INFORMATION

The information in this safety data sheet was obtained from reputable sources and to the best of our knowledge is accurate and current at the mentioned date. Neither CAPLINQ Corporation, nor CAPLINQ Europe BV accept any liability arising out of the use of the information provided here or the use, application or processing of the product described herein.

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