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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name	LINQBOND™ PM-1231BK
Applications:	Opaque two-part epoxy resin for casting bonding, potting, and sealing electronic components
Advised Against	No further relevant information available
Supplier Name	Caplinq Europe BV

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SECTION 2. HAZARDS IDENTIFICATION

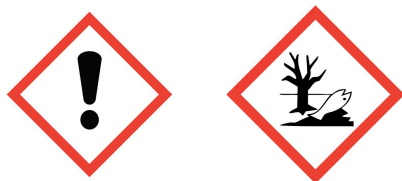
CLASSIFICATION

Skin Sensitization	Category 1
Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Irritation	Category 1
Specific Target Organ Toxicity (Single Exposure; Respiratory Tract Irritation)	Category 3
Specific Target Organ Toxicity (Repeated Exposure)	Category 2
Acute Oral Toxicity	Category 4
Hazardous to the Aquatic Environment (Acute Hazard)	Category 1
Hazardous to the Aquatic Environment (Long-term Hazard)	Category 2

SIGNAL WORD

Warning

HAZARD PICTOGRAM



HAZARD STATEMENTS

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

RESPONSE PRECAUTIONARY STATEMENTS

P302+P351 IF ON SKIN: Rinse cautiously with water for several minutes.
P305+P316+P338 IF IN EYES: Get emergency medical help immediately. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment: Refer to detailed instructions provided on this SDS

SECTION 3. INGREDIENT COMPOSITION

Part A

No.	Components	CAS Reg. No.	Proportion (%)
1	Epoxy resin	38891-59-7	30–90
2	Benzyl glycidyl ether	2930-05-4	10–20
3	Aluminum hydroxide	21645-51-2	0–25
4	Alumina	1344-28-1	0–20
5	Pigment	–	0–5

Part B

No.	Components	CAS Reg. No.	Proportion (%)
1	Phenol	90-72-2	10–30
2	Aromatic amine	593-00-0	30–50
4	Polythiol	31775-89-0	0–30

SECTION 4. FIRST AID MEASURES

EYE CONTACT

- Immediately flush with plenty of water for at least 10 min.

SKIN CONTACT

- No first aid required.

INHALATION

- Move victim to fresh air.
- Administer oxygen if breathing is difficult.
- If symptoms persist, seek medical attention.

INGESTION

- Do not administer anything orally if the patient is on the verge of losing consciousness, already unconscious, or experiencing convulsions.
- Do not induce vomiting.
- Get medical attention immediately.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- Dry chemicals, water mist, or foam.

SPECIAL FIREFIGHTING PROCEDURES AND EQUIPMENT

- Wear self-contained breathing apparatus and protective clothing.
- According to the local emergency plan, decide whether evacuation or isolation of the area is necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION PRECAUTION: Avoid eye contact. Keep the container sealed. Do not ingest.

LEAK/SPILL

- In case of a leakage, use sand, soil, or other appropriate materials to contain and prevent environmental contamination.
- Report as per regulatory requirements. Refer to the local emergency plan to determine whether evacuation or area isolation is necessary. Promptly transfer leaked material into a suitable container and utilize appropriate absorbents to clean up any remaining spills.

SECTION 7. HANDLING AND STORAGE

HANDLING

- Ensure the availability of suitable protective and ventilation equipment.
- Minimize skin and eye exposure, and prevent inhalation of vapors. Do not stay in contact for an extended period.

STORAGE

- Store in a cool and dry place away from excessive heat, sunlight, and humidity. Exercise caution and store separately from oxidizing materials.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS

No.	Components	Standards*	Reference
1	Epoxy resin	Not Established	OSHA ¹ /ACGIH ²
2	Benzyl glycidyl ether	Not Established	OSHA ¹ /ACGIH ²
3	Aluminum hydroxide	Not Established	OSHA ¹ /ACGIH ²
4	Alumina	Not Established	OSHA ¹ /ACGIH ²
5	Phenol	Not Established	OSHA ¹ /ACGIH ²
6	Aromatic amine	Not Established	OSHA ¹ /ACGIH ²
7	Polythiol	Not Established	OSHA ¹ /ACGIH ²

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 or local exhaust ventilation to meet exposure limit requirements.

PERSONAL PROTECTION

- Respiratory Protection: No special protective equipment is necessary when operating in areas equipped with ventilation and exhaust facilities.
- Eye/Skin Protection: Chemical safety splash goggles, and eyewash equipment are recommended. Do not wear contact lenses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Black viscous liquid (Part A) Brown viscous liquid (Part B)
Odor	Mild odor
pH	Not available
Initial Boiling Point/Boiling Ranges	Not available
Flash Point	Not available
Viscosity	18000 cP (Part A)/ 100 cP(Part B)
Vapour Pressure (mmHg at 25 °C)	Not available
Evaporation Rate (Butyl Acetate = 1)	Not applicable

SECTION 10. STABILITY & REACTIVITY

Chemical Stability: Stable under ordinary conditions of use and storage.

Decomposition Products: Ethanol, carbon dioxide, and trace amounts of unburned carbides.

Hazardous Polymerization: No hazard at room temperature.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity: No information found

Reproductive Effect: No information found

Chronic Effects: No information found

Target Organs: No information found

Eye Contact: May cause mild eye irritation.

Ingestion: May be hazardous to the digestive system, cause vomiting and loss of appetite.

Inhalation: May cause respiratory tract irritation, vomiting, and loss of appetite.

Skin Contact: May cause mild skin inflammation.

SECTION 12. ECOLOGICAL INFORMATION

Mobility: No Information found

Bioaccumulation: No information found

Biodegradability: No information found

Aquatic Toxicity: No information found

Environmental Toxicity: 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

This product is not classified as dangerous goods according to international transport regulations.

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

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

No information available

SECTION 16. OTHER INFORMATION

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