

Printing date: 05.04.2024

Version No: 01

Revision: 04.04.2024

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name	OPTOLINQ™ LE-5031HY Part A
Applications	Liquid epoxy resin
Advised Against	No further relevant information available
Supplier Name	Caplinq Europe BV

CAPLINQ Europe BV
 Industrieweg 15E
 1566 JN Assendelft
 The Netherlands
 +31 20 893 2224

CAPLINQ Corporation
 80 Sirocco Crescent
 Ottawa, ON K2S 2C9
 Canada
 +1 (613) 416 8426

CAPLINQ Americas
 36972 Schoolcraft Rd
 Livonia, MI 48150
 United States of America
 +1 (618) 416 9739

CAPLINQ Malaysia
 S-08-07 Setia Triangle
 Penang, BL 11900
 Malaysia
 +60 (15) 460 00453

SECTION 2. HAZARDS IDENTIFICATION

GHS HAZARD CATEGORY

Serious eye damage or irritation	Category 2A
Skin corrosion or irritation	Category 2
Skin sensitization	Category 1

HAZARD PICTOGRAM



SIGNAL WORD

Warning

HAZARD STATEMENTS

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

PRECAUTIONARY STATEMENTS

P261	Avoid inhaling dust, fumes, gasses, mists, vapors, or sprays.
P264	Wash skin thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

RESPONSE PRECAUTIONARY STATEMENTS

P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.
P332+P313	If skin irritation occurs, seek medical attention.
P333+P313	If skin irritation or rash occurs, seek medical attention.
P337+P313	If eye irritation persists, seek medical attention.
P305+P351+P338	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	If on skin, wash with plenty of water.

DISPOSAL

P501	Dispose of contents or container to approved waste disposal.
------	--

SECTION 3. INGREDIENT COMPOSITION

No.	Components	CAS Reg. No.	Proportion (%)
1	Bisphenol-A epoxy resin	25068-38-6	90–99
2	Alkyl glycidyl ether	68609-97-2	0.1–9
3	Diluent	/	0.01–9

SECTION 4. FIRST AID MEASURES

EYE CONTACT

- Rinse the contaminated eye with water for 20 minutes or until the contamination is completely removed. Ensure that water does not enter unaffected eyes during the rinsing process.
- Seek immediate medical attention.

SKIN CONTACT

- Rinse the affected area gently with warm water for 5 minutes or until the contamination is completely removed.

INHALATION

- Move victim to fresh air.
- If the victim experiences any discomfort, seek immediate medical attention.

INGESTION:

- If swallowed, seek immediate medical help and follow the doctor's advice on whether to induce vomiting.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- Chemical dry powder, fire sand, carbon dioxide, or foam fire extinguisher.

COMBUSTION PRODUCTS

Carbon dioxide, carbon monoxide, and other toxic gasses

PARTICULAR HAZARDS

Contact with amine substances can initiate polymerization reactions, which generate heat and cause temperature increase.

FIRE EXTINGUISHING PRECAUTIONS

Evacuate and isolate the fire area. Unauthorized personnel must not enter the site. Wear specialized protective gear during fire rescue operations. Transfer the product to a secure location. Maintain a safe distance when extinguishing fire. Using water mist may not effectively extinguish the fire. After extinguishing the fire and confirming no risk of reignition, use water spray to cool both the fire scene and the product container.

FIRE FIGHTING PROTECTIVE EQUIPMENT

Firefighters should wear firefighting attire, protective gloves, safety goggles, protective footwear, and self-contained respiratory gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

LEAK/SPILL

- In case of a leakage, avoid contamination of waterways, drinking water sources, surface water, and soil.
- Contain any leaked chemicals. For small spills, use sand to isolate and surround them. Absorb and dispose of with sand, cloth, or other absorbent materials. Use labeled cleanup methods and disposal materials for collection. For large spills, contact the fire brigade, emergency response units, and suppliers for assistance.
- Report as per regulatory requirements.

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 away from direct sunlight, heat, power sources, fire, and other heat-emitting devices. Keep in a dry, cool, well-ventilated area, and ensure the container remains tightly sealed.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS

No.	Components	Standards*	Reference
1	Bisphenol-A epoxy resin	Not Established	OSHA ¹ , ACGIH ²
2	Alkyl glycidyl ether	Not Established	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)

PERSONAL PROTECTION

- Respiratory Protection: No special protection needed.
- Eye/Skin Protection: Chemical safety splash goggles, eyewash equipment, and protective, impermeable gloves (general rubber or lined) are recommended. Wear protective clothing and closed shoes when handling the product. Ensure access to eye wash stations and emergency showers.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless transparent liquid
Odor	Not Applicable
pH	Not Applicable
Melting Point	30–50 °C
Boiling Point	>200 °C
Flash Point	252 °C
Vapor Pressure at 20 °C	<0.01 Pa
Vapor Density	Not Available

Density at 20 °C

1.1–1.2 g/cm³

Solubility

Not soluble in water

SECTION 10. STABILITY & REACTIVITY

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

Conditions to Avoid: Prolonged exposure to heat.

Incompatible Materials: Acids, alkalis, amines.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and aromatic compounds.

Hazardous Polymerization: Product does not react spontaneously. However, when it contacts amines, it triggers a polymerization reaction, generating significant heat and causing a rise in temperature.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	Lethal Dose, 50% (LD ₅₀)	Lethal Concentration, 50% (LC ₅₀)
Bisphenol-A epoxy resin	>10000 mg/kg (Rat, swallowed)	1.75 mg/L (96 hours, fish)

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Toxicity: May cause long-term adverse effects to aquatic environments.

Biodegradability: Epoxy resins are not easily biodegradable but can degrade over time under appropriate environmental conditions.

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. Do not pour into sewers or surface water, and avoid random disposal. Dispose of all containers or absorbents containing resin as hazardous waste.

SECTION 14. TRANSPORT INFORMATION

Following guidelines from the United Nations Model Recommendations on the Transport of Dangerous Goods (TDG) and the International Maritime Dangerous Goods Code, this product is not classified as dangerous goods.

TRANSPORTATION PRECAUTIONS

- Ensure the container is leak-proof.
- During transport, prevent falling, tipping, collisions, and exposure to direct sunlight.
- Pack and transport in a sealed container.
- Transportation must adhere to applicable national and international 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

Regulations on the Safety Management of Hazardous Chemicals

Catalog of hazardous chemicals: Not included.

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.

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgments of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.