

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name	OPTOLINQ™ LE-EP123
Applications:	Liquid epoxy resin
Advised Against	No further relevant information is available
Supplier Name	Caplinq Europe BV

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SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE/MIXTURE

Classification according to Regulation (EC) No 1272/2008

Hazard Class

Serious eye damage/eye irritation
Skin sensitization
Respiratory sensitization
Hazardous to the aquatic environment, long-term hazard
Skin corrosion/irritation

Hazard Category

Category 1
Category 1
Category 1
Category 2
Category 2

LABEL ELEMENTS

Labeling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard Pictogram



Signal Word

Danger

Hazard Statements

H318	Causes serious eye damage
H317	May cause an allergic skin reaction
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H315	Causes skin irritation
H411	Toxic to aquatic life with long-lasting effects

Prevention Precautionary Statements

P233	Keep the container tightly closed.
P261	Avoid inhaling dust, fumes, gasses, mists, vapors, or sprays.
P264+P265	Wash skin thoroughly after handling. Do not touch eyes.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284	In case of inadequate ventilation, wear respiratory protection.

Response Precautionary Statements

P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage
P305+P351+P338	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists; seek medical attention.
P302+P352	If on skin, wash with plenty of water.
P333+P313	If skin irritation or rash occurs, seek medical attention.
P304+P340	If inhaled, remove the person to fresh air and keep comfortable for breathing.
P342+P316	If experiencing respiratory symptoms: Get emergency medical help immediately.

Storage Precautionary Statements

P403	Store in a well-ventilated place.
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Disposal Precautionary Statements

P501	Dispose of contents or container to approved waste disposal.
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OTHER HAZARDS

No available data to assess PBT and vPvB

Ecological information: No available data

Toxicological information: No available data

SECTION 3. INGREDIENT COMPOSITION

No.	Components	CAS No.	Proportion (%)
1	Epoxy resin	25068-38-6	70–90
2	Hardener	19438-60-9	20–30
3	Thinner	68609-97-2	0.1–10
4	Accelerator	90-72-2	0.1–10

SVHC: CAS 19438-60-9 hexahydro-4-methylphthalic anhydride

Seveso: CAS 25068-38-6 (E2)

SECTION 4. FIRST AID MEASURES

DESCRIPTION OF FIRST-AID MEASURES

General advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled	After inhalation, move the patient to fresh air. Perform artificial respiration if breathing stops immediately by trained personnel. Immediately call a physician
In case of skin contact	In case of skin contact, take off immediately all contaminated clothing. Rinse the affected skin with water until the contaminant is removed. Consult a physician.
In case of eye contact	After eye contact, hold the eyelid open and rinse with plenty of water for more than 15 minutes. Immediately call in an ophthalmologist. Avoid getting water into the unaffected eye.
If swallowed	If swallowed, seek medical advice immediately. Do not induce vomiting; deliver 300 mL of water to the patient to dilute the stomach contents. If the patient vomits spontaneously, position the patient forward facing to avoid inhaling the vomit. Consult a doctor as quickly as possible.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- The most important known symptoms and effects are described in the labeling (see section 2) and/or in Section 11.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- No data available

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable	Carbon dioxide foam, dry chemical powder, fire fighting agents.
Unsuitable	No information available

SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MIXTURE

Fire hazard	None
Hazardous decomposition	Carbon monoxide, Other toxic gases

ADVICE FOR FIREFIGHTERS

Precautions during firefighting Evacuate personnel and isolate the fire area. Keep unauthorized individuals away from the fire area. Move the product to a safe location if possible and ensure the safety of personnel. When extinguishing the fire, maintain a safe position or distance. Water spray may not be effective in putting out the fire. After the fire is fully extinguished and there is no risk of re-ignition, use water spray to cool the fire area and the container holding the product.

Protection during firefighting Firefighting and rescue teams must wear appropriate protective equipment including gloves, glasses, and shoes. Stay in the danger area only with self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Do not attempt to take any action without wearing the proper protective clothing and equipment. Follow emergency procedures and consult an expert. Only trained personnel should handle the cleanup of the spillage. For personal protection information, refer to Section 8.

ENVIRONMENTAL PRECAUTIONS

Do not let products enter drains, drinking water sources, surface water, and soil.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

In case of a small spill, use sand to contain the material and allow it to be absorbed. You can also use cloth or other absorbent materials. Collect the absorbed material and store it in a labeled container.

For a large spill, contact the fire department, emergency services, or the supplier for assistance. Follow any material restrictions as outlined in Sections 7 and 10. Handle the spill with care and dispose of it properly.

REFERENCE TO OTHER SECTIONS

For disposal, see Section 13.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Advice on safe handling	Ensure sufficient ventilation at the workstation. Avoid contact with skin and eyes. Avoid material leakage.
Hygiene measures	Contaminated work clothing should not be worn outside workplace premises. Work clothing should be washed before reuse. Wash hands and face after handling the product. For precautions, see Section 2.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions	Store in a tightly closed, dry container. Ensure the storage area is cool, dry, and well-ventilated. Keep it away from direct sunlight, heat sources, and power outlets. Keep the product locked up or in a secured location accessible only to qualified or authorized personnel.
Storage class	No available data

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS

Exposure Limits

No.	Components	Standards*	Reference
1	Epoxy resin	Not Established	OSHA ¹ , ACGIH ²
2	Hardener	Not Established	OSHA, ACGIH
3	Thinner	Not Established	OSHA, ACGIH
4	Accelerator	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)

EXPOSURE CONTROLS

Eye and face protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure
Respiratory protection	Wear a NIOSH/MSHA or European Standard EN 149 approved full-face piece-airliner respirator in the positive pressure mode with emergency escape provisions.
Control of environmental exposure	Do not release the product to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless transparent viscous liquid
Odor	Not determined
pH	Not determined

Melting point	No data available
Boiling point	No data available
Flash point	No data available
Flammability	No data available
Vapor pressure	No data available
Explosive limit	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Solubility	Not soluble in water
Viscosity	15000 ±5000 cP at 25°C
Specific Gravity	0.95–1.05

OTHER INFORMATION

Information with regard to physical hazard classes	No additional information available
Other safety characteristics	No additional information available

SECTION 10. STABILITY & REACTIVITY

Chemical Stability and Reactivity	Stable and non-reactive under ordinary conditions of use and storage.
Materials and Conditions to Avoid	Avoid prolonged heat exposure. See Section 7 for recommended storage and handling conditions.
Hazardous Polymerization	Product does not react spontaneously.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON HAZARD CLASSES AS DEFINED (EC) No 1272/2008

CAS NO:	Value Type	Value	Route of Exposure
25068-38-6	LD50	>5000 mg/kg (Rat)	Oral

Acute Toxicity (Oral)	Not classified, based on available data
Acute Toxicity (Dermal)	Not classified, based on available data
Acute Toxicity (Inhalation)	Not classified, based on available data
Skin corrosion/irritation	May cause skin irritation
Serious eye damage/irritation	May cause eye irritation
Respiratory or skin sensitisation	Not classified, based on available data
Germ cell mutagenicity	Not classified, based on available data
Carcinogenicity	Not classified, based on available data
Reproductive Toxicity	Not classified, based on available data
Specific Target Organ Toxicity (Single and Repeated Exposure)	Not classified, based on available data
Aspiration hazard	Not classified, based on available data

INFORMATION ON OTHER HAZARDS

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

The product is not included in the list established in accordance with Article 57(f) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential adverse human health effects and symptoms

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecological Toxicity

Prevent from spreading or entering into drains, surface water, groundwater and rivers. The product is considered toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Hazardous to the aquatic environment, short term (acute)

Not available data

Hazardous to the aquatic environment, long-term (chronic)

Not available data

Mobility in soil

No available data

Bioaccumulation

No significant bioaccumulation potential

Persistence and biodegradability

Persistence is unlikely. Epoxy is not easily biodegradable but can degrade over time under appropriate environmental conditions.

PBT and vPvB assessment

No available data

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE NATURE

Hazardous waste

WASTE TREATMENT METHODS

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.

WASTE TREATMENT PRECAUTIONS

Warning: Generated waste is hazardous. Do not dump it into sewers, or surface water, or dispose of it improperly. All containers or absorbers containing resin must be treated as hazardous waste.

SECTION 14. TRANSPORT INFORMATION

UN NUMBER OR ID NUMBER

ADR/RID/ADN, IMDG, IATA

UN3082

PROPER SHIPPING NAME

ADR/RID/ADN

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Bisphenol A Epoxy Resin)

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Bisphenol A Epoxy Resin)

TRANSPORT HAZARD CLASS



Hazard Class

9 Miscellaneous Dangerous Goods and Articles

Label

9

PACKING GROUP

ADR/RID/ADN, IMDG, IATA

III

ENVIRONMENTAL HAZARDS

Marine pollutant

Symbol (fish and tree)

Special marking (ADR/RID/ADN)

Symbol (fish and tree)

Special marking (IATA)

Symbol (fish and tree)

SPECIAL PRECAUTIONS FOR USER

Warning: Miscellaneous dangerous substances and articles.

Hazard identification number (Kemler code)

90

EMS Number

F-A,S-F

Stowage Category

A

MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

Not applicable

Transport/Additional information

ADR/RID/ADN

Limited quantities (LQ)

5L

Excepted quantities (EQ)

Code: E1
Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Transport category

3

Tunnel restriction code

Not applicable

UN "Model Regulation"

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin), 9, III

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

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**Directive 2012/18/EU (Seveso III Directive) – Annex I: Named Dangerous Substances****Seveso category** E2 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

REGULATION (EC) No. 1907/2006 – Annex XVII: Restricted Substances

No restrictions

Directive 2011/65/EU (RoHS Directive) – Annex II: Restricted Substances in Electrical and Electronic Equipment

Substance is not listed.

National regulations**Other regulations, limitations and prohibitive regulations****Substances of very high concern (SVHC) according to REACH, Article 57**

CAS: 19438-60-9 hexahydro-4-methylphthalic anhydride

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.

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