

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name	LINQSOL™ EMC-5013
Applications:	Epoxy molding compound
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

Skin corrosion or irritation
Serious eye damage/eye irritation
Specific target organ toxicity repeated exposure (inhalation)
Specific target organ toxicity single exposure
(respiratory tract irritation)

Hazard Category

Category 2
Category 2
Category 2
Category 3

LABEL ELEMENTS

Labeling according to Regulation (EC) No 1272/2008

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

Hazard Pictogram



Signal Word

Warning

Hazard Statements

H315	Causes skin irritation
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure
H335	May cause respiratory irritation

Prevention Precautionary Statements

P261	Avoid inhaling dust, fumes, gasses, mists, vapors, or sprays.
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

P302+P352	IF ON SKIN: Wash with plenty of water.
P319	Get medical help if you feel unwell.
P333+P317	If skin irritation or rash occurs, seek medical attention.
P370+P378	In case of fire: Use CO ₂ , dry chemical, or foam to extinguish.

Storage Precautionary Statements

P403+P235

Store in a well-ventilated place. Keep cool.

P410

Protect from sunlight.

Disposal Precautionary Statements

P501

Dispose of contents or container to approved waste disposal.

OTHER HAZARDS

This substance/mixture does not contain components classified as Persistent, Bioaccumulative, and Toxic (PBT) or Very Persistent and Very Bioaccumulative (vPvB) at levels of 0.1% or higher, in accordance with Annex XIII of REACH Regulation (EC) No 1907/2006.

Ecological information:

This substance/mixture does not contain components identified as having endocrine-disrupting properties according to REACH Article 57(f), Commission Delegated Regulation (EU) 2017/2100, and Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

This substance/mixture does not contain components identified as having endocrine-disrupting properties according to REACH Article 57(f), Commission Delegated Regulation (EU) 2017/2100, and Commission Regulation (EU) 2018/605 at levels of 0.1% or higher..

SECTION 3. INGREDIENT COMPOSITION

No.	Components	CAS No.	Proportion (%)
1	Quartz Silica	14808-60-7	20~85
2	Silica, vitreous	60676-86-0	1~10
3	Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	29690-82-2	10~20
4	Phenol-formaldehyde polymer	9003-35-4	5~15
5	Carbon black	1333-86-4	0.1~0.5

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

Remove the affected person to fresh air and keep them at rest in a position comfortable for breathing. If symptoms persist or breathing becomes difficult, seek medical attention immediately. If the patient is unconscious or not breathing, provide artificial respiration (CPR) and call emergency services.

In case of skin contact

Remove contaminated clothing immediately. Rinse the affected skin with plenty of water and mild soap until the contaminant is completely removed. If irritation, rash, or allergic reaction occurs, consult a physician.

In case of eye contact

Hold the eyelids open and rinse the eyes gently but thoroughly with lukewarm water or an eye rinse solution for at least 15 minutes. Avoid contaminating the unaffected eye during flushing. Immediately seek medical attention from an ophthalmologist if irritation, pain, light sensitivity, or vision disturbances persist.

If swallowed

Rinse the mouth with water and provide 1–2 glasses of water to drink. Do NOT induce vomiting, unless instructed by medical personnel. Seek immediate medical advice. If the affected person is unconscious, do not give anything by mouth.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Refer to Section 2 (Hazards Identification) and Section 11 (Toxicological Information) for detailed symptoms and effects.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No specific antidote is available. Treatment should be symptomatic and supportive.

No additional medical data is available

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable Water spray (fog), foam, dry chemical or carbon dioxide

Unsuitable No information available

SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MIXTURE

Fire hazard The material is non-combustible under normal conditions but can decompose when exposed to high temperatures.

Hazardous decomposition Oxides of carbon (CO, CO₂) and Irritating organic vapors.

ADVICE FOR FIREFIGHTERS

Precautions during firefighting Evacuate personnel and isolate the fire area. Keep unauthorized individuals away. If safe to do so, move the product away from the fire while ensuring personnel safety. Maintain a safe position or distance when extinguishing the fire. Water spray may not be effective in extinguishing flames but can be used to cool the fire area and containers after the fire is fully extinguished to prevent re-ignition. Avoid breathing combustion gases and fumes.

Protection during firefighting Firefighting personnel must wear full protective equipment, including: Self-contained breathing apparatus (SCBA) to avoid inhaling toxic fumes. Protective gloves, goggles, and flame-resistant clothing. Remain in the danger area only if equipped with SCBA.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Do not attempt to take any action without wearing proper protective clothing and equipment. Follow emergency procedures and consult an expert if necessary. Keep away from sources of ignition and open flames. Ensure adequate ventilation to minimize airborne dust. Avoid dust formation—if airborne dust is present, wear a dust filter mask with a particle filter (P1, P2, or P3). Only trained personnel should handle the cleanup of spilled material. For personal protective measures, refer to Section 8.

ENVIRONMENTAL PRECAUTIONS

Prevent the material from entering drains, surface water, groundwater, and soil. If accidental release occurs near water sources, immediately notify local authorities.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

In case of a small spill, contain the material using sand, cloth, or other absorbent materials. Collect the absorbed material and store it in a properly labeled container for disposal.

For a large spill, remove all sources of ignition and ensure proper ventilation. Sweep up spilled material carefully to avoid generating dust. Do not use compressed air for cleaning to prevent dust dispersion. Contact emergency services, the fire department, or the supplier for assistance. Follow any handling restrictions outlined in Sections 7 and 10.

REFERENCE TO OTHER SECTIONS

For safe handling, see Section 7.

For exposure controls and personal protection, see Section 8.

For disposal considerations, see Section 13.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Advice on safe handling Avoid naked flames, sparking and sources of ignition. Avoid dust development and deposition - dust explosion risk. Take precautionary measures against static discharges. Avoid dust formation. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing.

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. For long-term storage, maintain a cold environment below 5 °C. 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 Non-combustible material, Dust-forming substance – Handle with care to prevent dust accumulation and explosion risks.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS

Exposure Limits

No.	Components	Standards*	Reference
1	Quartz Silica	RESPIRABLE DUST, 10% ≤ FREE SiO ₂ ≤ 50%, 0.7 mg/m ³ PC-TWA TOTAL DUST, 10% ≤ FREE SiO ₂ ≤ 50%, 1 mg/m ³ PC-TWA RESPIRABLE DUST, 50% < FREE SiO ₂ ≤ 80%, 0.3 mg/m ³ PC-TWA TOTAL DUST, 50% < FREE SiO ₂ ≤ 80%, 0.7 mg/m ³ PC-TWA RESPIRABLE DUST, FREE SiO ₂ > 80%, 0.2 mg/m ³ PC-TWA TOTAL DUST, FREE SiO ₂ > 80%, 0.5 mg/m ³ PC-TWA 0.05 mg/m ³ TWA 0.025 mg/m ³ TWA	GBZ 2.1-2007 ³ OSHA ¹ , ACGIH ²
2	Carbon black	4 mg/m ³ TWA 3 mg/m ³ TWA	GBZ 2.1-2007 ³ 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)

³Occupational Exposure Limits for Hazardous Agents in the Workplace – Part 1: Chemical Hazardous Agents

EXPOSURE CONTROLS

Eye and face protection	Standard safety glasses
Hand protection	Protective gloves. Wear refractive gloves while working with the hot melt
Body protection	Suitable protective clothing
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
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	Black pellet, granules
Odor	None
pH	No data available
Melting point	> 60.0 °C (> 140 °F)
Boiling point	Polymerization may occur at elevated temperature.
Flammability	No data available
Flash point	Not applicable
Vapor pressure	No data available
Vapor density	No data available
Auto-ignition temperature	>500.0 °C (> 932 °F)
Decomposition temperature	No data available
Solubility	Not soluble in water
Viscosity	Not available.
Density at 20 °C	1.80–2.10 g/cm ³
Partition coefficient (n-octanol/water)	No data available

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	Hydrofluoric acid. Strong alkalis. Reacts with strong oxidants. Danger of decomposition if exposed to heat. Danger of dust explosions. Take measures to prevent the build-up of electrostatic charges. See Section 7 for recommended storage and handling conditions.
Hazardous Polymerization	Product does not react spontaneously. However, polymerization reaction, may occur at elevated temperature or in the presence of incompatible materials.
Hazardous Decomposition Products	Oxides of carbon (CO, CO ₂) and irritating organic vapors. 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
9003-35-4	LD50	4,100mg/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 serious 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)	May cause damage to organs through prolonged or repeated exposure; May cause respiratory irritation
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.
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 compounds are not easily biodegradable but may degrade over time under specific environmental conditions.
PBT and vPvB assessment	This substance/mixture does not contain components classified as persistent, bioaccumulative, and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at concentrations $\geq 0.1\%$, in accordance with REACH Annex XIII.

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE NATURE

This material is non-hazardous waste under normal use conditions but should be handled as chemical waste according to local regulations.

WASTE TREATMENT METHODS

Disposal must comply with local, regional, national, and international regulations. Incineration is recommended, subject to approval by the appropriate regulatory authorities. Do not dispose of in sewers, surface water, or uncontrolled landfills. Dispose of all containers and absorbent materials contaminated with resin as hazardous waste.

WASTE TREATMENT PRECAUTIONS

Do not dump it into sewers, or surface water, or dispose of it improperly. After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorized legal land fill site or incinerated.

SECTION 14. TRANSPORT INFORMATION

UN NUMBER OR ID NUMBER**ADR/RID/ADN, IMDG, IATA**

None

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

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**Regulation (EC) No. 1907/2006 (REACH) – Annex XVII:**

This substance/mixture does not contain any substances subject to restrictions under Annex XVII.

Regulation (EC) No. 1907/2006 (REACH) – Candidate List of Substances of Very High Concern (SVHC):

None of the ingredients are listed as SVHCs.

Regulation (EC) No. 1272/2008 (CLP):

Classification, labeling, and packaging of substances and mixtures comply with CLP requirements.

Directive 2012/18/EU (Seveso III Directive) – Annex I:

This substance/mixture is not classified as a named dangerous substance under the Seveso III Directive.

Directive 2011/65/EU (RoHS Directive) – Annex II:

The substance is not listed as a restricted material under the RoHS Directive.

NATIONAL REGULATIONS

This substance/mixture is not included in the catalog of hazardous chemicals.

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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