

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name	OPTOLINQ™ BMC-1100
Applications:	Black epoxy molding compound for the encapsulation of optoelectronic devices
Advised Against	No further relevant information available
Supplier Name	Caplinq Europe BV

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SECTION 2. HAZARDS IDENTIFICATION

HAZARD CLASS

Acute toxicity, oral
Eye damage
Skin sensitization
Acute toxicity, inhalation
Germ cell mutagenicity
Specific target organ toxicity, repeated exposure
Aquatic chronic

HAZARD CATEGORY

Category 3
Category 1
Category 1
Category 3
Category 1B
Category 2
Category 3

HAZARD PICTOGRAMS:



HAZARD STATEMENTS

H301	Toxic if swallowed
H318	Causes serious eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H340	May cause genetic defects
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

PRECAUTIONARY: PREVENTION

P203	Obtain, read and follow all safety instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264+P265	Wash hands thoroughly after handling. Do not touch eyes.
P270	Do not eat, drink or smoke when using this product.
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.

PRECAUTIONARY: RESPONSE

P301+P316	IF SWALLOWED: Get emergency medical help immediately.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352	IF ON SKIN: wash with plenty of water
P333+P317	If skin irritation or rash occurs: Get medical help.
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P318	If exposed or concerned, get medical advice.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

PRECAUTIONARY: STORAGE

P403+P233	Store in a well-ventilated place. Keep the container tightly closed.
P405	Store locked up.

PRECAUTIONARY: DISPOSAL

P501	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site
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SECTION 3. INGREDIENT COMPOSITION

No.	Components	CAS Reg. No.	Proportion (%)
1	Epoxy resin	2451-62-9	22–33
2	Silicon dioxide	7631-86-9	67–78
3	Carbon black	1333-86-4	0.1–1

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: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
In case of eye contact	After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
If swallowed	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and 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

- Dry powder, carbon dioxide, foam extinguisher, or dry sand.

FIRE FIGHTING PROCEDURE

- For large fires, use dry chemical, foam, or water spray. For small fires, use carbon dioxide, dry chemical, or water spray. Water can be used to cool fire exposed containers. 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, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

ENVIRONMENTAL PRECAUTIONS

- Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

- Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

REFERENCE TO OTHER SECTIONS

- For disposal see section 13.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Advice on safe handling	Work under hood. Do not inhale substance/mixture.
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions	Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.
Storage class	Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS

- Ingredients with workplace control parameters

EXPOSURE CONTROLS

Personal protective equipment

Eye/face protection

Safety goggles

Hand protection

Please contact the supplier of CE-approved gloves.

Material of gloves

Material: Nitrile rubber (full and splash contact)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed

Body Protection

Protective clothing

Respiratory protection

Required when dusts are generated.

Recommended Filter type: Filter type P3

Control of environmental exposure:

Do not let product enter drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid black pellets
Odor	Not Applicable
pH	Not Applicable
Initial Boiling Point/Boiling Ranges	Not Applicable
Flash Point	Not Determined
Specific Gravity	1.9
Vapour Pressure (mmHg at 25 °C)	Not Applicable
Explosive Limit	Not Determined

SECTION 10. STABILITY & REACTIVITY

Chemical Stability:	Stable under ordinary conditions of use and storage.
Materials and Conditions To Avoid:	Not applicable.
Hazardous Polymerization:	No hazard at room temperature.
Hazardous Decomposition Products:	Carbon dioxide, along with residual carbon from incomplete combustion and traces of phenolic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity:	No data available
Reproductive Effect:	No data available
Chronic Effects:	No data available
Target Organs:	No data available

SECTION 12. ECOLOGICAL INFORMATION

Mobility:	No data available
Bioaccumulation:	No data available
Persistence and biodegradability:	No data available
Aquatic Toxicity:	No data available

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

UN number

ADR/RID: 2811

IMDG: 2811

IATA: 2811

UN proper shipping name

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (TGIC)

IMDG: TOXIC SOLID, ORGANIC, N.O.S. (TGIC)

IATA: Toxic solid, organic, n.o.s. (TGIC)

Transport hazard class(es)

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

Packaging group

ADR/RID: III

IMDG: III

IATA: III

Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Special precautions for user

Tunnel restriction code : (E)

Further information : No data available

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

This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.

Authorisations and/or restrictions on use

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : TGIC

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : TGIC

National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.: H2 ACUTE TOXIC

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

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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