chanhvinh.com

Safety Data Sheet

Printing date: 05.10..2024 Version No: 03 Revision: 04.02.2024

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name	OPTOLINQ™ BMC-4200
Applications:	Black epoxy molding compound for the encapsulation of optoelectronic devices
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

HAZARD CLASS	HAZARD CATEGORY
Skin Sensitization	Category 1, 1A, 1B
Skin corrosion or irritation	Category 2
Hazardous to the aquatic environment, long-term hazard	Category 2
Serious eye damage/eye irritation	Category 2A

HAZARD PICTOGRAMS:



SIGNAL WORD
Warning

HAZARD STATEMENTS

H315	Causes skin irritation
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects.

PREVENTION PRECAUTIONARY STATEMENTS

P203	Obtain, read and follow all safety instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling
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.
P264+P265	Wash hands thoroughly after handling. Do not touch eyes

chanhvinh.com

RESPONSE PRECAUTIONARY STATEMENTS

P318	If exposed or concerned, get medical advice.
P321	See specific treatment on the label.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P352	Wash with plenty of soap and water.
P391	Collect spillage
P301+P316	If swallowed, get emergency medical help immediately.
P302+P352	If on skin, wash with plenty of water.
P332+P317	If skin irritation occurs: Get medical help.
P337+P317	If eye irritation persists: Get medical help.
P362+P364	Take off immediately all contaminated clothing and wash it before reuse.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing

DISPOSAL PRECAUTIONARY STATEMENTS

P501	Dispose of contents or container to approved waste disposal.

SECTION 3. INGREDIENT COMPOSITION

No.	Components	CAS Reg. No.	Proportion (%)
1	Semi-crosslinked epoxy resin	25085-99-8	99
2	Carbon black	1333-86-4	1

SECTION 4. FIRST AID MEASURES

EYE CONTACT:

- Remove contact lenses if worn. Rinse opened eyes for several minutes under running water. If symptoms persist, consult a doctor

SKIN CONTACT:

- Do not pull solidified compound off the skin.
- Immediately wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.

INHALATION:

- Supply fresh air; consult a doctor in case of complaints.

INGESTION:

- Rinse out your mouth and then drink plenty of water.
- Do not induce vomiting; call for medical help immediately

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

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

FIRE FIGHTING PROCEDURE

- For large fires, use dry chemicals, 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.

chanhvinh.com

- Assess the situation based on your local emergency plan to determine if evacuation or area isolation is necessary. For containers exposed to flames but not yet ignited, use a water spray to keep them cool and prevent further escalation.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

- Avoid contact with the eyes. Do not take it internally. Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away.
- Ensure adequate ventilation

ENVIRONMENTAL PRECAUTIONS

- Prevent from spreading or entering into drains, ditches, or rivers by using sand, earth, or other appropriate barriers. Inform respective authorities in case of seepage into the water course or sewage system.

LEAKAGE OR SPILL

- If spilled material can be pumped and can be safely recovered, store it in an appropriate container. Use a suitable absorbent to clean up the remaining spillage, as even small quantities can create a slip hazard. Consider a final cleaning using methods such as steam, solvents, or detergents if needed. Dispose of saturated absorbents or cleaning materials properly to prevent potential spontaneous heating.

SECTION 7. HANDLING AND STORAGE

HANDLING

- Use with adequate ventilation. Avoid contact with the eyes. Do not ingest. Exercise good industrial hygiene practice. Wash hands thoroughly after handling, especially before eating, drinking, or smoking.

STORAGE

- Exercise caution.Store away from foodstuffs. Store away from oxidizing materials, near extreme heat, ignition sources or open flame.
- Store in cool, dry conditions in well sealed receptacles

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

VENTILATION:

Use general exhaust ventilation.

PERSONAL PROTECTION:

- Respiratory Protection: Not required under normal conditions of use. Use proper respiratory protective equipment in case of insufficient ventilation and or when aerosol or mist is formed.
- Eye Protection: Use appropriate eye protective gear, with safety glasses as the minimum requirement.
- Skin protection: Observe proper washing before and after mealtime and at the end of shift.
- Body protection: Wear suitable protective work clothing.
- Hand Protection: Avoid skin-contact. Wear refractive gloves while working with the product.
- Hygiene Measures: Adopt appropriate procedures for industrial hygiene. Particularly before eating, drinking, or smoking, wash after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid black pellets
Odor	Not Applicable

chanhvinh.com

pH	Not Applicable
Initial Boiling Point/Boiling Ranges	Not Applicable
Flash Point	Not Determined
Specific Gravity	1.25
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: Store away from oxidizing agents.
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 information found.
Reproductive Effect: No information found.
Chronic Effects: No information found.
Target Organs: No information found.
Inhalation: Toxic if inhaled.
Skin Contact: May cause an allergic skin reaction
Eye Contact: May cause temporary redness and discomfort.
Ingestion: Toxic if swallowed. May cause irritation to digestive tract.

SECTION 12. ECOLOGICAL INFORMATION

Mobility: No information found
Bioaccumulation: No bioaccumulation potential.
Persistence and biodegradability: It can undergo decomposition in the soil.
Aquatic Toxicity: Harmful to aquatic organisms with long lasting effect
Effect in Wastewater Treatment Plants: 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.

chanhvinh.com

SECTION 14. TRANSPORT INFORMATION

14.1 UN Number or ID Number

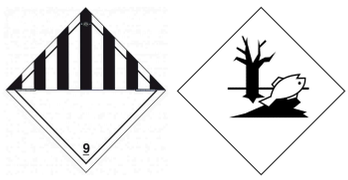
ADR/RID/ADN, IMDG, IATA	UN3077

14.1 Proper Shipping Name

ADR/RID/ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Diglycidyl Bisphenol A Resin)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Diglycidyl Bisphenol A Resin)
IATA	Environmentally hazardous substance, solid, n.o.s (Diglycidyl Bisphenol A Resin)

14.1 Transport Hazard Class

ADR/RID/ADN, IMDG, IATA



Hazard Class	9 Miscellaneous dangerous substances and articles
Label	9

14.4 Packing Group

ADR/RID/ADN, IMDG, IATA	III

14.5 Environmental hazards

Hazard	Product contains environmentally hazardous substances
Marine pollutant	Symbol (fish and tree)
Special marking (ADR/RID/ADN)	Symbol (fish and tree)
Special marking (IATA)	Symbol (fish and tree)

14.6 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
14.7 Maritime transport in bulk according to IMO instruments	Not applicable

Transport/Additional information

ADR/RID/ADN	
Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	E1
Transport category	3
Tunnel restriction code	(-)
UN "Model Regulation"	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diglycidyl Bisphenol A Resin), 9, III

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.

chanhvinh.com

SECTION 15. REGULATORY INFORMATION

No information available

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.