

Safety Data Sheet

SUPERNOL® Liquid Crystal Polymers

Section 1. Identification

Product identifier:	Supernol® Liquid Crystal Polymers
Other mean of identification:	Aromatic Polyester Resin, poly p-oxybenzoate homopolyester, Poly(4-Hydroxybenzoic acid)
Recommended use:	Industrial manufacture of substances
Manufacturer:	Egene Optoelectronic Materials. C., Ltd No.59, Ln. 226, Luzhu Rd., Toufen Township, Miaoli County 351, Taiwan (R.O.C.) Tel: 03-7613395 Fax: 03-7613398
Emergency telephone number:	+886-03-7613395

Section 2. Hazard Identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200 , and EC regulation 1272/2008 (CLP)

Hazard classification:	May form combustible dust concentration in air (USA GHS Only) Not Classified as hazardous according to CLP regulation.)
Signal Word:	Warning (applicable in North America; non applicable within the EU)



Hazard Statements:	May form combustible dust concentration in air (USA GHS Only)
Precautionary Statements:	Not Regulated
NFPA and HMIS ratings: (Scale 0-4)	Health: 0 Fire: 1 Reactivity: 0

Other Hazards: PBT: Not applicable
vPvB: Not applicable

Section 3. Composition/information on ingredients

3.1. Substance:

Poly p-oxybenzoate homopolyester: 100%

CAS Number: 26099-71-8

EC number: 607-862-2

Section 4. First aid measures

Description of first aid measures

Eye Contact:	Flush eyes with water. Retract eyelids often, hold eyelids away from eye to ensure thorough rinsing. Remove contact lenses if possible. Get medical attention if necessary.
Inhalation:	Move to area with fresh air immediately. Get medical attention if necessary.
Skin Contact:	Brush off loose particles from Skin. Wash contact area with soap and water. Get medical attention if necessary.
If Swallowed:	Not Anticipated. Rinse out mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention.
Most important symptoms and effects, both acute and delayed:	Breathing difficulty Coughing Slight irritant on skin and on eyes.
Indication of any immediate medical attention and special treatment required:	Not Applicable

Section 5. Fire-fighting measures

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire or class A fire extinguishers. (Water, CO ₂ , and/or Foam)
Specific hazards arising from the chemical mixture:	Dust may form explosive mixtures in air
Hazardous decomposition products:	Carbon monoxide (during combustion) Carbon dioxide (during combustion)

Special protective equipment and precautions for fire-fighters: None anticipated

Section 6. Accidental release measures

Personal Precautions, protective equipment, and emergency procedures: Not applicable

Methods and materials for containment and cleaning up: Pick up mechanically

Section 7. Handling and storage

Precautions for safe handling: For industrial and professional use only. Avoid inhalation of dust generated by the use of this product.

Conditions for safe storage including and incompatibilities: Do not store together with acids
Do not store together with alkalis
Store away from oxidizing agents

Further information about storage conditions: Store in tightly closed containers in a dry area

Section 8. Exposure controls/personal protection

Occupational exposure limits:

Ingredient name	CAS No.	Agency	Limits
poly p-oxybenzoate homopolyester	26099-71-8	OSHA	TWA (Total Dust): 15mg/m ³ TWA (Respirable Fraction): 5mg/m ³
poly p-oxybenzoate homopolyester	26099-71-8	ACGIH	TWA (Total Dust): 10mg/m ³ TWA (Respirable Fraction): 3mg/m ³

Engineering controls: Provide adequate ventilation and/or exhaust to maintain dust level concentrations below listed exposure limits. Use local exhaust if possible to minimize dust contamination of the work area and ensure ventilation systems are adequately equipped to handle and contain dust. If adequate ventilation is not available, use respiratory PPE.

Individual protection measures:

Eye/face protection:	Wear eye and face protection when working with substance. Selection of appropriate eye and face protection should be based on a risk assessment of exposure. Safety glasses with side shield are recommended as the minimum, dust service goggles are suggested.
Respiratory protection:	A risk assessment of exposure should be used to determine if a respirator is required and what type is necessary specific to the application, either half or full face respirator suitable for particulates. Consult respirator manufacturer to insure suitability. A NIOSH approved respirator for particulates with a TLV of greater than 0.05mg/m ³ is generally acceptable
Skin protection:	Wear protective clothing and gloves to minimize skin contact and dust exposure.

Section 9. Physical and chemical properties

Appearance:	
Physical state:	Solid
Form	Powder
Color:	Beige
Odor:	Not available
Odor threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not available
Boiling point:	Not available
Flash point:	Not available
Flammability:	Not classified
Flammability limits:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Specific Gravity:	1.45
Solubility:	Not available
Solubility in water:	Insoluble
Partition coefficient	Not
n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity	Not available

Section 10. Stability and reactivity

Reactivity:	Considered non-reactive under normal use
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Chemical stability:	Stable
Possibility of hazardous reactions:	None, under normal conditions
Conditions to avoid:	No data available
Incompatible materials:	Sulfuric acid
Hazardous decomposition products:	Carbon monoxide (during combustion) Carbon dioxide (during combustion)

Section 11. Toxicological information

Description of toxicological effects

Routes of exposure and symptoms:

Eye Contact: Direct contact or by dust may cause eye irritation.

Inhalation: Dust may cause respiratory irritation, coughing, sneezing, nasal discharge, and/or nose and throat pain.

Skin Contact: Direct contact may cause skin irritation.

Ingestion: Not expected through normal use. May cause stomach irritation, nausea, vomiting, and diarrhea.

Delayed and immediate effects/ chronic effects from short and long term exposure:

Short term effects

Immediate:	No known
Delayed:	No known

Long term effects

Immediate:	No known
Delayed:	No known

Potential chronic effects

Short term exposure:	No known
Long term exposure:	No known

Numerical measures of toxicity:

Acute toxicity:

Ingredient name	Exposure route	Species	Dose/ Estimated Dose
poly p-oxybenzoate homopolyester	Oral	Rat	LD50 > 10gm/kg

Irritation/corrosion:	No data available
Sensitization:	No data available
Mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Teratogenicity:	No data available
Neurotoxicity:	No data available
Immunotoxicity:	No data available
Specific Target Organ Toxicity (single exposure):	No data available
Specific Target Organ Toxicity (repeated exposure):	No data available
Aspiration Hazard:	No data available
Carcinogenic classifications:	Not Classified

Please contact the address or phone number listed for more toxicological information on this material and/or its components.

Section 12. Ecological information

Please contact the address or phone number listed for more ecological information on this material and/or its components.

Section 13. Disposal considerations

Disposal methods:	Landfill or incineration disposal methods of contents/containers may be used in accordance with the local, regional, national, and international requirements. Contact local waste authorities for proper disposal methods.
EPA Hazardous Waste Number (RCRA):	Not regulated

Please contact the address or phone number listed for more disposal information on this material and/or its components.

Section 14. Transport information

Not regulated per US DOT, IATA, or IMO classifications; provided for informational purposes only; shipper's responsibility to contact all necessary entities ensuring compliance with all applicable laws and regulations including classification and packaging.

Please contact the address or phone number listed for more information regarding transportation of this material.

Section 15. Regulatory information

US federal regulations:	Please contact the address or phone number listed for more information.
311/312 hazards categories:	Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No Immediate Hazard – No Delayed Hazard – No
State regulations:	Please contact the address or phone number listed for more information.
Chemical Inventories:	Does not appear on the TSCA inventory. Please contact the address or phone number listed for more information.
International Regulations:	Please contact the address or phone number listed for more information.

Section 16. Other information

Issue date: 07/1/2018

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This MSDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical information judged to be reliable, Egene Optoelectronic Materials Co. Ltd assumes no responsibility for the completeness or accuracy of the information contained herein. This SDS does not grant any authorization to practice any patented invention without a license. This SDS shall not constitute a guarantee for any specific product features.