



Safety Data Sheet

Version 7.0
Revision Date: 26/06/2020

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **11-(4'-Cyanobiphenyl-4-yloxy)-undecyl methacrylate**
Other name: 11-[4-(4'-Cyanophenyl)phenoxy]undecyl methacrylate
Product number: 11C-LCMA
Product use: For laboratory research purposes.
Supplier / Manufacturer: Polymer Source, Inc.
Address: 124 Avro street, Dorval (Montreal), Quebec H9P 2X8, Canada
Telephone: (+1) 514-421-5517
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2. HAZARDS IDENTIFICATION

Emergency overview: WHMIS classification: D1B. Toxic material causing immediate and serious toxic effects: Toxic by ingestion.
D2B. Toxic material causing other toxic effects: Toxic by inhalation.
E. Corrosive material: Moderate eye irritant; Corrosive.

GHS classification: Acute toxicity, Oral (Category 3)
Acute toxicity, Inhalation (Category 4)
Acute toxicity, Dermal (Category 4)
Skin corrosion (Category 1B)
Serious eye damage (Category 1)

GHS Label elements, including precautionary statements:

Pictogram:



Signal word: Danger

Hazard statements: H301. Toxic if swallowed.
H312 + H332. Harmful in contact with skin or if inhaled.
H314. Causes severe skin burns and eye damage.

Precautionary statements:	P280. Wear protective gloves / protective clothing / eye protection / face protection.
	P305 + P351 + P338. <u>IF IN EYES:</u> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310. Immediately call a Poison Center or doctor / physician.
HMIS classification:	Health hazard: 3
	Flammability: 0
	Physical hazards: 0
Potential health effects:	Inhalation: Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
	Skin: Causes skin burns.
	Eyes: Causes eye burns.
	Ingestion: Toxic if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Formula:	C ₂₈ H ₃₅ NO ₃
Synonym:	433 g/mol
Concentration:	≤ 100%
CAS number:	N/A

4. FIRST AID MEASURES

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
In case of eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Conditions of flammability:	Not flammable or combustible.
Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for firefighters:	Wear self contained breathing apparatus for firefighting if necessary.

Hazardous combustion products:	Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides (NO _x).	
Explosion data:	Sensitivity to mechanical impact:	no data available
	Sensitivity to static discharge:	no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.	
Environmental precautions:	Do not let product enter drains.	
Methods and materials for containment and cleaning up:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.	

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Conditions for safe storage:	Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2–8 °C. Air, light, and moisture sensitive. Store under inert gas. Heat sensitive.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment:

- Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin and body protection: Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- Specific engineering controls: Use mechanical exhaust or laboratory fumehood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Form:	no data available
	Colour:	no data available
Safety data:	pH:	no data available
	Melting point / Freezing point:	no data available
	Boling point:	no data available
	Flash point:	no data available
	Ignition temperature:	no data available
	Auto-ignition temperature:	no data available
	Lower explosion limit:	no data available
	Upper explosion limit:	no data available
	Vapour pressure:	no data available
	Density:	no data available
	Water solubility:	no data available
	Partition coefficient: n-octanol/water:	no data available
	Relative vapour density:	no data available
	Odour:	no data available
	Odour threshold:	no data available
	Evaporation rate:	no data available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.	
Possibility of hazardous reactions:	no data available	
Conditions to avoid:	Avoid moisture. Avoid light.	
Materials to avoid:	Strong oxidizing agents. Oxygen. Strong reducing agents. Bases. Acids.	
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides (NO _x).	
	Other decomposition products: no data available.	

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Oral LD50:	no data available
	Inhalation LC50:	no data available
	Dermal LD50:	no data available
	Other information on acute toxicity:	no data available
Skin corrosion/irritation:	no data available	
Serious eye damage/eye irritation:	no data available	

Respiratory or skin sensitization:	no data available	
Germ cell mutagenicity:	no data available	
Carcinogenicity:	IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Reproductive toxicity:	no data available	
Teratogenicity:	no data available	
Specific target organ toxicity:	Single exposure (GHS):	no data available
	Repeated exposure (GHS):	no data available
Aspiration hazard:	no data available	
Potential health effects:	Inhalation:	Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
	Ingestion:	Toxic if swallowed.
	Skin:	Causes skin burns.
	Eyes:	Causes eye burns.
Signs and symptoms of exposure:	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, shortness of breath, headache, nausea.	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
Synergistic effects:	no data available	
Additional information:	RTECS:	no data available

12. ECOLOGICAL INFORMATION

Toxicity:	no data available
Persistence and degradability:	no data available.
Bioaccumulative potential:	no data available
Mobility in soil:	no data available
PBT and vPvB assessment:	no data available
Other adverse effects:	no data available

13. DISPOSAL CONSIDERATIONS

Product:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
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Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US):	UN number: 2923 Class: 8 (6.1) Packing group: III Proper shipping name: Corrosive solids, toxic, N.O.S. (11-(4-[4'-cyanophenyl]phenoxy)undecyl methacrylate) Marine pollutant: No Poison Inhalation Hazard: No
IMDG:	UN number: 2923 Class: 8 (6.1) Packing group: III EMS-No: F-A, S-B Proper shipping name: Corrosive solids, toxic, N.O.S. (11-(4-[4'-cyanophenyl]phenoxy)undecyl methacrylate) Marine pollutant: No
IATA:	UN number: 2923 Class: 8 (6.1) Packing group: III Proper shipping name: Corrosive solids, toxic, N.O.S. (11-(4-[4'-cyanophenyl]phenoxy)undecyl methacrylate)

15. REGULATORY INFORMATION

WHMIS classification: D1B. Toxic material causing immediate and serious toxic effects. Toxic by ingestion.
D2B. Toxic material causing other toxic effects. Toxic by inhalation.
E. Corrosive material. Moderate eye irritant. Corrosive.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

Date of the latest revision: 26 June 2020

Further information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Polymer Source, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See www.polymersource.ca for additional terms and conditions of sale.