

SAFETY DATA SHEET – CMS-121

Section 1: Identification

Product name: CMS-121

Synonyms: CMS121; 4-[4-(cyclopentyloxy)-2-quinolinyl]-1,2-benzenediol

CAS number: 1353224-53-9

Molecular formula: C₂₀H₁₉NO₃

Molecular weight: 321.37 g/mol

Recommended use: Laboratory research use only

Uses advised against: Not for food, drug, household or other consumer use. The identity/formula/CAS above are consistent with supplier and PubChem listings.

Section 2: Hazard(s) identification

GHS classification: Not classified according to available supplier SDS information.

Signal word: None

Hazard pictograms: None

Hazard statements: None

Precautionary statements: Avoid dust formation. Avoid contact with skin, eyes and clothing. Use only in a well-ventilated laboratory setting. Cayman's 2025 SDS lists CMS121 as not classified under GHS/OSHA HCS.

Section 3: Composition / information on ingredients

Substance name: CMS-121

CAS number: 1353224-53-9

Composition: Substance, single component

This matches the supplier SDS substance listing.

Section 4: First-aid measures

General advice: Remove from exposure. Seek medical attention if symptoms occur.

Inhalation: Move person to fresh air. Seek medical attention if irritation or symptoms develop.

Skin contact: Wash with soap and water. Remove contaminated clothing.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Ingestion: Rinse mouth. Do not induce vomiting unless instructed by a medical professional. Supplier SDS language for first aid is minimal and generally recommends fresh air / washing / rinsing / physician attention if complaints occur; this draft keeps that same conservative lab framing.

Section 5: Fire-fighting measures

Suitable extinguishing media: Water spray, dry chemical, foam, or carbon dioxide, depending on surrounding fire.

Specific hazards: Carbon oxides, nitrogen oxides, and other irritating fumes may form during combustion.

Protective equipment for firefighters: Self-contained breathing apparatus and full protective clothing.

This is standard conservative SDS wording for an organic nitrogen-containing solid; I'm using cautious lab phrasing here rather than claiming product-specific combustion testing. The product is identified by suppliers as an organic solid with formula C₂₀H₁₉NO₃.

Section 6: Accidental release measures

Personal precautions: Avoid breathing dust. Wear suitable gloves, eye protection, and laboratory protective clothing.

Environmental precautions: Prevent release to drains and the environment.

Methods for cleanup: Sweep up carefully or collect using appropriate inert absorbent material. Place in suitable, closed container for disposal.

This is a conservative lab cleanup section appropriate for a small-quantity research solid.

Section 7: Handling and storage

Handling: Handle in accordance with good laboratory hygiene and safety practice. Avoid dust formation and contact with skin, eyes, and clothing.

Storage: Store tightly closed in a cool, dry place. Protect from moisture and light.

Recommended storage temperature: Suppliers list storage at **-20°C** for CMS-121 powder/solid, and one supplier notes stock solutions are unstable and should be prepared fresh or in small quantities.

Section 8: Exposure controls / personal protection

Engineering controls: Use with adequate ventilation.

Respiratory protection: Use suitable respiratory protection if dust/aerosol exposure is possible.

Hand protection: Protective gloves.

Eye protection: Safety glasses or chemical safety goggles.

Skin/body protection: Lab coat or other protective clothing.

Hygiene measures: Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product.

No specific occupational exposure limits were found in the supplier SDS snippet, so standard lab PPE is the appropriate conservative approach.

Section 9: Physical and chemical properties

Appearance: Solid / crystalline solid

Color: Light yellow to yellow, or yellow according to supplier listings

Odor: No data available

Melting point / boiling point: No data available

Solubility: Soluble in organic solvents such as DMSO and DMF; Cayman reports approximate solubility of about **20 mg/mL in DMSO** and **30 mg/mL in DMF**.

Section 10: Stability and reactivity

Reactivity: No specific data available

Chemical stability: Stable under recommended storage conditions

Conditions to avoid: Heat, light, moisture, incompatible materials

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Carbon oxides, nitrogen oxides, irritating fumes

Storage/stability details come from supplier product information stating storage at -20°C and long-term stability as powder, while stock solutions may be unstable.

Section 11: Toxicological information

Acute toxicity: No specific toxicological data available in the sources I checked

Skin/eye irritation: No specific data available

Sensitization: No data available

STOT / aspiration / chronic effects: No specific data available

Practical statement: Handle as a substance with incomplete toxicological characterization. This is the safest way to phrase it when you do not have full tox data from a robust primary SDS set beyond basic handling guidance.

Section 12: Ecological information

No specific ecological data available. Avoid uncontrolled release to the environment.

Section 13: Disposal considerations

Dispose of contents/container in accordance with local, regional, national, and international regulations. Handle as laboratory chemical waste.

Section 14: Transport information

Not classified as dangerous goods for transport based on available supplier SDS information reviewed here. Cayman's SDS shows no GHS classification and no transport hazard class in the visible SDS excerpt.

Section 15: Regulatory information

This material is intended for **research use only** and not for human or veterinary diagnostic or therapeutic use, consistent with supplier positioning.

Section 16: Other information

This SDS draft is intended as a laboratory-use document based on publicly available supplier/product data for CMS-121 and conservative standard SDS wording. Key identity data used: **CAS 1353224-53-9, C20H19NO3, 321.37 g/mol**, stored at **-20°C**.