## 1 Identification

- **Product identifier**
- **Trade name:** Pyrogallol
- **Article number:** 20347
- **CAS Number:** 87-66-1
- **EC number:** 201-762-9
- **Index number:** 604-009-00-6
- **Application of the substance / the mixture**
  This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  Cayman Chemical Co.
  1180 E. Ellsworth Rd.
  Ann Arbor, MI 48108
  USA
- **Information department:** Product safety department
- **Emergency telephone number:**
  During normal opening times: +1 (734) 971-3335
  US/CANADA: 800-424-9300
  Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification

- **Classification of the substance or mixture**
  - **GHS08 Health hazard**
    - Mut. 2 H341 Suspected of causing genetic defects.
  - **GHS07**
    - Acute Tox. 4 H302 Harmful if swallowed.
    - Acute Tox. 4 H312 Harmful in contact with skin.
    - Acute Tox. 4 H332 Harmful if inhaled.
    - Aquatic Acute 3 H402 Harmful to aquatic life.

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Trade name: Pyrogallop

Aquatic Chronic 3  H412 Harmful to aquatic life with long lasting effects.

· **Label elements**
  - GHS label elements
    - The substance is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    - GHS07
    - GHS08

· **Signal word** Warning

· **Hazard statements**
  - H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
  - H341 Suspected of causing genetic defects.
  - H402 Harmful to aquatic life.
  - H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**
  - P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P261 Avoid breathing dust/fume/gas/mist/vapors/spray
  - P264 Wash thoroughly after handling.
  - P270 Do not eat, drink or smoke when using this product.
  - P271 Use only outdoors or in a well-ventilated area.
  - P273 Avoid release to the environment.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
  - P330 Rinse mouth.
  - P302+P352 If on skin: Wash with plenty of water.
  - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - P308+P313 IF exposed or concerned: Get medical advice/attention.
  - P321 Specific treatment (see on this label).
  - P362+P364 Take off contaminated clothing and wash it before reuse.
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
  - NFPA ratings (scale 0 - 4)
    - Health = 3
    - Fire = 0
    - Reactivity = 0
  - **HMIS-ratings (scale 0 - 4)**
    - Health = 2
    - Fire = 0
    - Reactivity = 0

· **Other hazards**
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
Trade name: Pyrogallol

- vPvB: Not applicable.

### 3 Composition/information on ingredients

- Chemical characterization: Substances
  - CAS No. Description
    - 87-66-1 Pyrogallol
  - Identification number(s)
    - EC number: 201-762-9
    - Index number: 604-009-00-6

### 4 First-aid measures

- Description of first aid measures
  - General information:
    Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  - After inhalation:
    Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
    In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact: Generally the product does not irritate the skin.
  - After eye contact: Rinse opened eye for several minutes under running water.
  - After swallowing: Immediately call a doctor.

- Information for doctor:
  - Most important symptoms and effects, both acute and delayed
    May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.
  - Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

### 5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents:
    Use fire fighting measures that suit the environment.
    A solid water stream may be inefficient.
  - Special hazards arising from the substance or mixture
    No further relevant information available.
  - Advice for firefighters
    - Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Not required.
- Environmental precautions:
  Inform respective authorities in case of seepage into water course or sewage system.
  Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**
  - PAC-1: 0.41 mg/m³
  - PAC-2: 4.5 mg/m³
  - PAC-3: 20 mg/m³

### 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**
    - Thorough dedusting.
    - Ensure good ventilation/exhaustion at the workplace.
  - **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**
  - **Storage:** Store in accordance with information listed on the product insert.
  - **Requirements to be met by storerooms and receptacles:** No special requirements.
  - **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Keep receptacle tightly sealed.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:** Not required.
  - **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**
      - Keep away from foodstuffs, beverages and feed.
      - Wash hands before breaks and at the end of work.
      - Avoid contact with the eyes and skin.
    - **Breathing equipment:**
      - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
    - **Protection of hands:**
      - **Protective gloves**
        - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
        - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

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- **Material of gloves**
  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.
- **Penetration time of glove material**
  The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection**: Not required.

### 9 Physical and chemical properties

#### Information on basic physical and chemical properties

- **General Information**
  - **Appearance:**
    - Form: Solid
    - Color: Not determined.
    - Odor: Characteristic
  - **Structural Formula**: C₆H₆O₃
  - **Molecular Weight**: 126.1 g/mol
  - **Odor threshold**: Not determined.
  - **pH-value**: Not applicable.

- **Change in condition**
  - **Melting point/Melting range**: 133–134 °C (271.4–273.2 °F)
  - **Boiling point/Boiling range**: 309 °C (588.2 °F)
  - **Flash point**: Not applicable.
  - **Flammability (solid, gaseous)**: Product is not flammable.
  - **Decomposition temperature**: Not determined.
  - **Auto igniting**: Not determined.
  - **Danger of explosion**: Product does not present an explosion hazard.
  - **Explosion limits**:
    - Lower: Not determined.
    - Upper: Not determined.
  - **Vapor pressure at 168 °C (334.4 °F)**: 13.3 hPa (10 mm Hg)
  - **Density at 20 °C (68 °F)**: 1.453 g/cm³ (12.12529 lbs/gal)
  - **Relative density**: Not determined.
  - **Vapor density**: Not applicable.
  - **Evaporation rate**: Not applicable.

- **Solubility in / Miscibility with**
  - **Water at 20 °C (68 °F)**: 440 g/l

- **Partition coefficient (n-octanol/water)**: Not determined.

- **Viscosity**
  - **Dynamic**: Not applicable.
  - **Kinematic**: Not applicable.
  - **SOLUBILITY**
    - DMF: 30 mg/ml; DMSO: 20 mg/ml; Ethanol: 30 mg/ml; PBS (pH 7.2): 5 mg/ml
10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided:
  No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: oxidizing agents
- Hazardous decomposition products: carbon dioxide, carbon monoxide

11 Toxicological information

- RTECS Number: UX2800000
- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    | Oral LD50 | Subcutaneous LD50 |
    |-----------|-------------------|
    | 300 mg/kg (mouse) | 566 mg/kg (mouse) |
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
  - Carcinogenic categories
    - IARC (International Agency for Research on Cancer): Substance is not listed.
    - NTP (National Toxicology Program): Substance is not listed.
    - OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Ecotoxic effects:
  - Remark: Harmful to fish
- Additional ecological information:
  - General notes:
    - Water hazard class 2 (Assessment by list): hazardous for water
    - Do not allow product to reach ground water, water course or sewage system.
    - Danger to drinking water if even small quantities leak into the ground.
    - Harmful to aquatic organisms
13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - DOT, IMDG, IATA
    UN2811

- UN proper shipping name
  - DOT
    Toxic solids, organic, n.o.s. (Pyrogallol)
  - IMDG
    TOXIC SOLID, ORGANIC, N.O.S. (Pyrogallol)
  - IATA
    Toxic solid, organic, n.o.s. (Pyrogallol)

- Transport hazard class(es)
  - DOT
    - Class 6.1 Toxic substances
    - Label 6.1

- IMDG, IATA
  - Class 6.1 Toxic substances
  - Label 6.1

- Packing group
  - DOT, IMDG, IATA
    III

- Environmental hazards:
  - Not applicable.

- Special precautions for user
  - Warning: Toxic substances

- Hazard identification number (Kemler code): 60

- EMS Number: F-A, S-A

- Stowage Category A
### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - No further relevant information available.
- **Sara**
  - Substance is not listed.
- **Section 355 (extremely hazardous substances)**
  - Substance is not listed.
- **Section 313 (Specific toxic chemical listings)**
  - Substance is not listed.
- **TSCA (Toxic Substances Control Act)**
  - ACTIVE
- **Hazardous Air Pollutants**
  - Substance is not listed.
- **Proposition 65**
  - Substance is not listed.
- **Chemicals known to cause cancer**
  - Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females**
  - Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males**
  - Substance is not listed.
- **Chemicals known to cause developmental toxicity**
  - Substance is not listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)**
  - Substance is not listed.
- **TLV (Threshold Limit Value)**
  - Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  - Substance is not listed.
- **Chemical safety assessment**
  - A Chemical Safety Assessment has not been carried out.

### 16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS 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 SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. 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 SDS is based on technical data judged to
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be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· Department issuing SDS: Environment protection department.
· Contact: -
· Date of preparation / last revision 07/29/2022 / -
· Abbreviations and acronyms:
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  EINECS: European Inventory of Existing Commercial Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  NIOSH: National Institute for Occupational Safety
  OSHA: Occupational Safety & Health
  TLV: Threshold Limit Value
  PEL: Permissible Exposure Limit
  REL: Recommended Exposure Limit
  Acute Tox. 4: Acute toxicity – Category 4
  Muta. 2: Germ cell mutagenicity – Category 2
  Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
  Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3