

Material Safety Data Sheet

Pyrogallol

ACC# 20010

Section 1 - Chemical Product and Company Identification

MSDS Name: Pyrogallol

Catalog Numbers: AC164560000, AC164561000, AC164565000, AC418620000, AC418620250, AC418621000, AC418625000, A263-100, A263-500, P395, P395A

Synonyms: 1,2,3-Benzenetriol; 1,2,3-Trihydroxybenzene; Pyrogallic acid.

Company Identification:

Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410

For information, call: 201-796-7100

Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
87-66-1	Pyrogallol	99	201-762-9

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white crystalline powder.

Warning! Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Possible risks of irreversible effects. Harmful if swallowed, inhaled, or absorbed through the skin. May cause sensitization by skin contact.

Target Organs: Blood, kidneys, liver, respiratory system, skin.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. Harmful if absorbed through the skin.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.

Inhalation: May cause respiratory tract irritation. Harmful if inhaled.

Chronic: Repeated exposure may cause sensitization dermatitis. Adverse reproductive effects have been reported in animals. Animal studies have reported the development of tumors.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 1

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Use only in a well-ventilated area. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not expose to air. Store protected from light. Store under an inert atmosphere.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Pyrogallol	none listed	none listed	none listed

OSHA Vacated PELs: Pyrogallol: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI

Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder
Appearance: white
Odor: odorless
pH: Not available.
Vapor Pressure: 100 mm Hg @ 167.7C
Vapor Density: 4.4
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 309 deg C
Freezing/Melting Point: 133 - 134 deg C
Decomposition Temperature: 309 deg C
Solubility: Soluble.
Specific Gravity/Density: 1.453
Molecular Formula: C₆H₃(OH)₃
Molecular Weight: 126.11

Section 10 - Stability and Reactivity

Chemical Stability: May discolor on exposure to air. Air sensitive. Light sensitive.
Conditions to Avoid: Light, dust generation, exposure to air, excess heat.
Incompatibilities with Other Materials: Acid chlorides, acid anhydrides, bases, oxidizing agents, metals, alkalies.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 87-66-1: UX2800000

LD50/LC50:

CAS# 87-66-1:

Draize test, rabbit, eye: 20 mg/24H Moderate;

Draize test, rabbit, skin: 2 mg/24H Severe;

Oral, mouse: LD50 = 300 mg/kg;

Oral, mouse: LD50 = 570 mg/kg;

Oral, rabbit: LD50 = 1600 mg/kg;

Oral, rabbit: LD50 = 1600 mg/kg;

Oral, rat: LD50 = 790 mg/kg;

Human LDLo: Oral: DOSE: 28 mg/kg.

Carcinogenicity:

CAS# 87-66-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: Subcutaneous, rat: TDLo = 3950 mg/kg/58W-I (Tumorigenic - equivocal tumorigenic agent by RTECS criteria - Tumorigenic - tumors at site of application).

Teratogenicity: Oral, rat: TDLo = 3 gm/kg (female 6-15 day(s) after conception) Effects on Embryo or Fetus - fetotoxicity (except death, e.g., stunted fetus)

Reproductive Effects: Oral, rat: TDLo = 3 gm/kg (female 6-15 day(s) after conception) Fertility - post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants).; Subcutaneous, rat: TDLo = 5 mg/kg (female 1 day(s) pre-mating) Maternal Effects - ovaries, fallopian tubes.

Mutagenicity: Micronucleus Test: Intraperitoneal, mouse = 252 mg/kg.; Micronucleus Test: Oral, mouse = 504 mg/kg.; Cytogenetic Analysis: Intraperitoneal, mouse = 100 umol/kg.; Sister Chromatid Exchange: Hamster, Lung = 25 umol/L.; Cytogenetic Analysis: Hamster, Ovary = 100 mg/L.

Neurotoxicity: No information found

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Fish: Goldfish: LC50 = 18 mg/L; 48 Hr; Unspecified Water flea Daphnia: EC50 = 54 mg/L; 24 Hr; Unspecified Estimated Koc value = 3.2. This value indicates that pyrogallol will show very high soil mobility and will not adsorb to sediment or particulate matter in water. Volatilization from moist or dry soils and water sources is not expected. Estimated BCF value = 0.37. This value suggests that bioconcentration of pyrogallol in aquatic organisms should be low.

Environmental: Pyrogallol exists primarily in that vapor phase in the ambient atmosphere and will be degraded by the reaction with photochemically-produced hydroxyl radicals with a half-life of 1.9 hours.

Physical: No information available.

Other: Harmful to aquatic life in very low concentrations.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	TOXIC SOLIDS, ORGANIC, N.O.S.	TOXIC SOLIDS, ORGANIC, N.O.S.
Hazard Class:	6.1	6.1
UN Number:	UN2811	UN2811
Packing Group:	III	II
Additional Info:		Pyrogallol

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 87-66-1 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 87-66-1: immediate, delayed.

Section 313 No chemicals are reportable under Section 313.**Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 87-66-1 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

XN

Risk Phrases:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 68 Possible risk of irreversible effects.

Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.

S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

WGK (Water Danger/Protection)

CAS# 87-66-1: 2

Canada - DSL/NDL

CAS# 87-66-1 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

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

Canadian Ingredient Disclosure List

CAS# 87-66-1 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 5/10/1999

Revision #8 Date: 2/15/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.