

Mallinckrodt®

PYROGALLIC ACID

Material Safety Data Sheet

Mallinckrodt Inc.
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Emergency Telephone Number
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Effective Date: 08-28-85

PRODUCT IDENTIFICATION:

Synonyms: 1,2,3-Trihydroxybenzene; pyrogallol; 1,2,3-benzenetriol

Formula CAS No.: 87-66-1

Molecular Weight: 126.11

Hazardous Ingredients:
None.

Chemical Formula: C₆H₃(OH)₃

PRECAUTIONARY MEASURES

DANGER! HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.
CAUSES IRRITATION.

Do not breathe dust.
Do not get in eyes, on skin, or on clothing.
Keep container closed.
Use with adequate ventilation.
Wash thoroughly after handling.

EMERGENCY/FIRST AID

If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes.
In all cases call a physician.
SEE SECTION 5.

DOT Hazard Class: Not Regulated

Physical Data

SECTION 1

Appearance: White to slightly yellow plates and powder.

Odor: Characteristic odor.

Solubility: ca 60g/100ml water @ 20°C (68°F).

Boiling Point: 309°C (588°F).

Vapor Density (Air=1):4.4

Melting Point: 131-133°C (268-271°F).

Vapor Pressure (mm Hg):10 @ 167.7°C
(333.9°F)

Density: 1.45

Evaporation Rate:No information found.

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Fire and Explosion Information

SECTION 2

Fire:

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam or carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Reactivity Data

SECTION 3

Stability:

Stable under ordinary conditions of use and storage. Darkens on exposure to air or light.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization:

This substance does not polymerize.

Incompatibilities:

Oxygen, oxidizing agents.

Leak/Spill Disposal Information

SECTION 4

Ventilate area of leak or spill. Clean-up personnel may require respiratory protection from dust.

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Disposal: Whatever cannot be saved for reclamation may be delivered to an approved waste disposal facility.

Ensure compliance with local, state and federal regulations.

Health Hazard Information

SECTION 5

A. Exposure/Health Effects

Inhalation: Irritant. May be absorbed through the lungs. Can cause coughing, sneezing or difficulty in breathing.

Ingestion: Toxic substance. Ingestion can lead to severe gastrointestinal irritation, vomiting, and diarrhea. Pyrogalllic acid absorbed through the alimentary canal can cause damage to the liver and kidneys, produce methemoglobinemia, circulatory collapse and death.

Skin Contact: Irritant. Causes redness and soreness. Pyrogalllic acid is readily absorbed through the skin and severe or fatal poisoning can occur.

Eye Contact: Irritant. Causes redness and pain.

Chronic Exposure: Accumulation of pyrogalllic acid in the system affects the kidneys and liver.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

B. FIRST AID

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call physician immediately.

Skin Exposure: Remove any contaminated clothing. Wipe off excess from skin. Wash skin with plenty of water for at least 15 minutes. Get medical attention promptly.

Eye Exposure: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

C. TOXICITY DATA (RTECS, 1982)

Oral rat LD50: 789 mg/kg.
 Irritation skin rabbit: 500 mg/24H severe. Eye rabbit: 20 mg/24H severe.
 Mutation references cited.
 Reproductive effects cited.

Occupational Control Measures

SECTION 6

Airborne Exposure Limits: None established.

Ventilation System: A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

Personal Respirators (NIOSH Approved) For conditions of use where exposure to the dust is apparent, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

Storage and Special Information SECTION 7

Store in a cool, dry, ventilated area away from sources of heat or ignition. Isolate from oxidizing materials. Protect from direct sunlight.

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