

Mallinckrodt

Material Safety Data

Emergency Phone Number: 314-982-5000

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Mallinckrodt, Inc., Science Products Division, P.O. Box M, Paris, KY 40361.

BENZOIC ACID

PRODUCT IDENTIFICATION:

Synonyms: Benzenecarboxylic acid; benzeneformic acid; phenyl carboxylic acid

Formula CAS No.: 65-85-0

Molecular Weight: 122.12

Chemical Formula: C_6H_5COOH

Hazardous Ingredients: Not applicable.

PRECAUTIONARY MEASURES

**WARNING! CAUSES IRRITATION.
MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR.**

Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.
Avoid dust cloud in presence of an ignition source.
Maintain adequate ventilation.

EMERGENCY/FIRST AID

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
SEE SECTION 5.

DOT Hazard Class: ORM-E

SECTION 1 Physical Data

Appearance: White, needle-like crystals.

Odor: Slight odor of benzaldehyde.

Solubility: 0.29 g/100 g water

Boiling Point: 249.2°C (480°F)

Melting Point: 122.4°C (252°F)

Density: 1.321

Vapor Density (Air=1): 4.21

Vapor Pressure (mm Hg): 10 mm Hg @ 132°C (270°F)

Evaporation Rate: No information found.

SECTION 2 Fire and Explosion Information

Fire:

Flashpoint: 121°C (250°F) (CC)

Autoignition temperature: 570°C (1058°F)

Explosion:

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Minimum explosible concentration 0.011 g/l.

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.

SECTION 3 Reactivity Data

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Emits toxic vapors and gas including phenol, benzene, and carbon monoxide when heated to decomposition.

Hazardous Polymerization:

This substance does not polymerize.

Incompatibilities:

Oxidizing agents, bases, and metals. Water solutions can react with metals to produce hydrogen gas.

SECTION 4 Leak/Spill Disposal Information

Ventilate the area of the leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from dust. Scoop up solid for recovery or disposal into a plastic-bag lined container. Cover trace residues or small spills with soda ash or sodium bicarbonate, sprinkle with water and mix to neutralize. Disposal: Package unclaimable material for disposal in a RCRA-approved waste facility. Alternatively, waste can be dissolved in a flammable solvent and burned in an approved incinerator with an afterburner.

Reportable Quantity (RQ)(CWA/CERCLA) : 5000 lbs.

Ensure compliance with local, state and federal regulations.

SECTION 5 Health Hazard Information

A. EXPOSURE / HEALTH EFFECTS

Inhalation:

May cause irritation to the respiratory tract, symptoms may include coughing and sore throat.

Ingestion:

Large oral doses may cause abdominal pain, sore throat, nausea, and vomiting.

Skin Contact:

Excessive contact may cause irritation and redness.

Eye Contact:

Causes severe irritation and can be corrosive.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

B. FIRST AID

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Exposure:

Wash exposed area with soap and water. Get medical advice if irritation develops.

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: 2530 mg/kg Irritation skin rabbit:

500 mg/24H mild Eye rabbit: 100 mg severe Mutation reference cited.

SECTION 6 Occupational Control Measures

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 and/or full face shield where dusting or splashing of solutions is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 7 Storage and Special Information

Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Isolate from oxidizing materials. Isolate from flammable materials.

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BENAC