BENZOIC ACID

Material Safety Data Sheet

Mallinckrodt Chemical Inc.

P.O. Box 800

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Effective Date: 12-22-93 Supersedes 08-27-85

PRODUCT IDENTIFICATION:

Synonyms: Benzenecarboxylic acid; benzeneformic acid; phenyl carboxylic acid

Molecular Weight: 122.12 Formula CAS No.: 65-85-0

Hazardous Ingredients: Benzoic acid Chemical Formula: C6H5COOH

PRECAUTIONARY MEASURES

WARNING! CAUSES EYE IRRITATION. MAY CAUSE IRRITATION TO SKIN AND RESPIRATORY TRACT. MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR.

Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling.

Avoid dust cloud in presence of an ignition source.

Maintain adequate ventilation.

EMERGENCY FIRST AID

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes.

EE SECTION 5.

SECTION 1 Physical Data

Appearance: White, needle-like crystals.

Faint pleasant odor. Odor:

Solubility: 0.29 g/100 g water; sinks in water.

Boiling Point: 249.2 C (480 F) Vapor Density (Air=1):4.21

Vapor Pressure (mm Hg):10 @ 132 C (270 Melting Point: 122.4 C (252 F)

Evaporation Rate: No information Density: 1.321

NFPA Ratings: Health: 2 Flammability: 1 Reactivity: 0

SECTION 2 Fire and Explosion

Information --------

Explosion:

Flashpoint: 121 C (250 F) (CC) Autoignition Fire:

temperature: 570 C (1058 F)

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. Vapor may explode if ignited in an enclosed area. Vapor from molten benzoic acid may form explosive mixture with air.

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Water spray, dry chemical, alcohol foam, or Fire Extinguishing Media:

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.

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.

Leak/Spill Disposal Information _____

SECTION 4

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 unreclaimable 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. Toxic to fish in very low concentrations.

Reportable Quantity (RQ) (CWA/CERCLA) : 5000 lbs. Ensure compliance with local, state and federal regulations.

Health Hazard Information -----

SECTION 5

A. Exposure/Health Effects

Inhalation:

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

Ingestion:

Large oral doses may cause abdominal pain, sore

throat, nausea, and vomiting.

Skin Contact:

If allowed to remain on skin, may cause irritation

with redness and pain.

Eye Contact:

Causes irritation with redness and pain.

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

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large amounts were swallowed, get medical advice.

Skin Exposure:

Wash exposed area with soap and water. Get medical

advice if irritation develops.

ye Exposure:

Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get

medical attention immediately.

C. TOXICITY

(RTECS, 1993)

Oral rat LD50: 1700 mg/kg; irritation skin rabbit: 500 mg/24H mild; eye rabbit: 100 mg severe; investigated as a mutagen.

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 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

Storage and Special Information

SECTION 7

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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Addendum to Material Safety Data Sheet

REGULATORY STATUS

Hazard Categories for SARA Section 311/312 Reporting

Chronic Acute

Fire

Pressure

Reactive

X

	SARA Sec. 313				CED CL 3	D CD A
	SARA	EHS			CERCLA	RCRA
Product or Components	Sec.	302	Name	Chemical	Sec.103	Sec.
of Product:	RQ	TPQ	List	Category	RQ lbs	261.33
BENZOIC ACID (65-85-0)	No	No	No	No	No	No

SARA Section 302 EHS RQ: Reportable Quantity of Extremely Hazardous Substance, listed at 40 CFR 355.

SARA Section 302 EHS TPQ: Threshold Planning Quantity of Extremely Hazardous substance. An asterisk (*) following a Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micrometers, the

SARA Section 313 Chemicals: Toxic Substances subject to annual release reporting requirements listed at 40 CFR 372.65.

Threshold Planning Quantity = 10,000 LBS.

CERCLA Sec. 103: Comprehensive Environmental Response, Compensation and Liability Act (Superfund) Releases to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center, (800-424-8802); Listed at 40 CFR 302.4

RCRA:
Resource Conservation and Recovery Act. Commercial chemical product wastes
designated as acute hazards and toxic under 40 CFR 261.33

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