

## METHYL BENZOATE

## Material Safety Data Sheet

Mallinckrodt Chemical Inc.

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Emergency Telephone Number  
314-539-1600

Effective Date: 02-20-87 Supersedes 09-01-85

## PRODUCT IDENTIFICATION:

Synonyms: Benzoic acid, methyl ester; methyl benzenecarboxylate; Niobe oil

Formula CAS No.: 93-58-3

Molecular Weight: 136.15

Hazardous Ingredients: Methyl benzoate

Chemical Formula: C<sub>8</sub>H<sub>8</sub>O<sub>2</sub>

## PRECAUTIONARY MEASURES

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO EYES AND SKIN.  
COMBUSTIBLE.

Do not breathe vapor.

Avoid contact with eyes, skin and clothing.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling.

Keep away from heat, sparks and flame.

## EMERGENCY FIRST AID

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. In case of contact, immediately flush skin with plenty of water for at least 15 minutes. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, call a physician immediately.  
SEE SECTION 5.

## Physical Data

## SECTION 1

Appearance: Colorless liquid.

Odor: Fragrant odor.

Solubility: Insoluble in water.

Boiling Point: 198-199 C (388-390 F)

Vapor Density (Air=1): 4.69

Melting Point: -12 C (10 F)

Vapor Pressure (mm Hg): 1 @ 39 C

Specific Gravity: 1.094

Evaporation Rate: No information found.

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

## Fire and Explosion

## SECTION 2

## Information

Fire:

Combustible Liquid. Flash point: 83 C (181 F)

Explosion:

Above the flash point, explosive vapor-air mixtures may be formed.

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.

## Hazardous Decomposition Products:

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

## Hazardous Polymerization:

Will not occur.

## Incompatibilities:

Strong oxidizers.

## Leak/Spill Disposal Information

## SECTION 4

Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Contain and recover liquid when possible. Collect as hazardous waste and atomize in a suitable RCRA approved combustion chamber, or absorb with vermiculite, dry sand, earth or similar material for disposal as hazardous waste in a RCRA approved facility. Do not flush to sewer!

Ensure compliance with local, state and federal regulations.

## Health Hazard Information

## SECTION 5

## A. Exposure/Health Effects

## Inhalation:

Inhalation of vapors irritates the respiratory tract. At room temperature the substance has such a low vapor pressure that inhalation of the vapor is unlikely.

## Ingestion:

Ingestion may cause sore throat, abdominal pain vomiting and diarrhea.

## Skin Contact:

Causes skin irritation with redness and pain.

## Eye Contact:

Causes eye 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:

If swallowed, call a physician immediately.

## Skin Exposure:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists.

## 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 (RTECS, 1986)

Oral rat LD50: 1350 mg/Kg

## 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 vapor is apparent, a half mask chemical cartridge 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

Protect against physical damage. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage room or cabinet. Separate from oxidizing materials. Storage and use areas should be No Smoking areas.

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## Addendum to Material Safety Data Sheet

## REGULATORY STATUS

Hazard Categories for SARA  
Section 311/312 Reporting

Acute	Chronic	Fire	Pressure	Reactive
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X		X		

Product or Components of Product:	SARA EHS Sec. 302		SARA Sec. 313 Chemicals Name Chemical List Category		CERCLA Sec. 103 RQ lbs	RCRA Sec. 261.33
	RQ	TPQ	----	-----	-----	-----
METHYL BENZOATE (93-58-3)	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 Threshold Planning Quantity = 10,000 LBS.

SARA Section 313 Chemicals:

Toxic Substances subject to annual release reporting requirements listed at 40 CFR 372.65.

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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