



MATERIAL SAFETY DATA SHEET (MSDS)

Dimethyl phthalate

Section 1 Chemical Product and Company Identification

MSDS Name: Dimethyl phthalate
Synonyms: 1,2-Benzenedicarboxylic acid dimethyl ester
CAS#: 131-11-3
Company Identification: FOSHAN NANHAI ZHONGNAN PHARMACEUTICAL FACTORY
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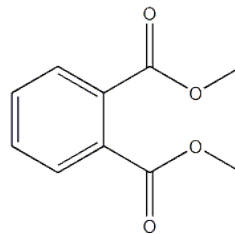
Section 2 Composition, Information on Ingredients

Chemical Name: 1,2-benzenedicarboxylic acid dimethyl ester

Molecular Formula: C₁₀H₁₀O₄

Molecular Weight: 194.19

结构式: (右图)



Chemical Name:	%	CAS#
1,2-benzenedicarboxylic acid dimethyl ester	99	131-11-3

Section 3 Hazards Identification

Potential Health Effects

Skin: May cause skin irritation. May be harmful if absorbed through the skin.

Eye: May cause eye irritation.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

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

Chronic: Prolonged or repeated exposure may cause nausea, dizziness, and headache.

Dangerous type hieroglyphic figure:



Section 4 First Aid Measures

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower



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eyelids. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. Get medical aid.

Ingestion: Get medical aid. Wash mouth out with water.

Notes to Physician: Treat symptomatically and supportively.

Section 5 Fire Fighting Measures

Extinguishing Media: Water or foam may cause frothing. Use water spray to cool fireexposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

General Information: As in any fire, wear a self-contained breathing apparatus in pressuredemand, MSHA /NIOSH (approved or equivalent), and full protective gear.

Section 6 Accidental Release Measures

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

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 7 Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 131113:

United Kingdom, WEL TWA: 5 mg/m³ TWA United Kingdom, WEL STEL: 10mg/m³ STEL

United States OSHA: 5 mg/m³ TWA

Belgium TWA: 5 mg/m³ VLE

France VME: 5 mg/m³ VME

Malaysia: 5 mg/m³ TWA

Russia: 0.3 mg/m³ TWA (aerosol and vapour)

Spain: 5 mg/m³ VLAED

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 Physical and Chemical Properties

Physical State: Clear liquid

Color: APHA: 20 max



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pH: N/A
Freezing/Melting Point: 2 °C
Boiling Point: 282 °C @760mmHg (539.60 °F)
Explosion Limits: Upper: 8.03
Flash Point: 150 °C (302.00 °F)
Solubility in water: negligible
Decomposition Temperature: N/A

Odor: esterlike aromatic odor
Specific Gravity/Density: 1.190
Autoignition Temperature: 460 °C (860.00 °F)
Explosion Limits: Lower: 0.94
Vapor Pressure: 0.008mbar @20 °C
Viscosity: 17 mPa.s @20 °C

Section 10 Stability and Reactivity

Chemical Stability: Stable.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials Incompatible materials, acids, bases, nitrates.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide.

Hazardous Polymerization Will not occur.

Section 11 Toxicological Information

LD50/LC50: Dermal, guinea pig: LD₅₀ = >10 mL/kg;
Draize test, rabbit, eye: 119 mg;
Oral, mouse: LD₅₀ = 6800 mg/kg;
Oral, rabbit: LD₅₀ = 4400 uL/kg;
Oral, rat: LD₅₀ = 6800 mg/kg;
Skin, rabbit: LD₅₀ = >20 mL/kg;
Skin, rat: LD₅₀ = >4800 mg/kg;

Other: See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 Ecological Information

Ecotoxicity: Daphnia: EC/LC₅₀: 150 mg/l; 24H; acute
Daphnia: EC/LC₅₀: 33 mg/l; 48H; acute
Bacteria: Pseudomonas putida: EC/LC₅₀: >3000 mg/l; 17H
Algae: EC/LC₅₀: 204 mg/l; 72H;

Section 13 Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated as a hazardous material	Not regulated as a hazardous material	Not regulated as a hazardous material
Hazard Class:			
UN Number:			



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Packing Group:

USA RQ: CAS# 131113:5000 lb final RQ; 2270 kg final RQ

Section 15 Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases: 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 131113:1

Canada

CAS# 131113 is listed on Canada's DSL List

US Federal

TSCA

CAS# 131113 is listed on the TSCA Inventory.

Section 16 Other Information

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 the company 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 the company has been advised of the possibility of such damages.

MSDS Creation Date:

Revision #2 Date :