



Specialized in chemicals

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Material Safety Data Sheet

Dibutyl fumarate(DBF) MSDS

Section 1: Chemical Product and Company Identification

Product Name: Dibutyl fumarate(DBF)

CAS#: 105-75-9

Synonym: Dibutyl (E)-but-2-enedioate

Chemical Formula: C₁₂H₂₀O₄

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Dibutyl fumarate	105-75-9	100

Toxicological Data on Ingredients:

LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Emergency Overview

OSHA Hazards

No known OSHA hazards

<p>HMIS Classification Health Hazard: 0 Flammability: 0 Physical hazards: 0 NFPA Rating Health Hazard: 0 Fire: 0 Reactivity Hazard: 0 Potential Health Effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Ingestion May be harmful if swallowed.</p>

<p>Section 4: First Aid Measures</p> <p>If breathed in, move person into fresh air. If not breathing give artificial respiration In case of skin contact Wash off with soap and plenty of water. In case of eye contact Flush eyes with water as a precaution. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.</p>

<p>Section 5: Fire and Explosion Data</p> <p>Flammable properties Flash point 90 °C (194 °F) - closed cup Ignition temperature no data available Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.</p>

<p>Section 6: Accidental Release Measures</p> <p>Personal precautions Avoid dust formation. Environmental precautions Do not let product enter drains. Methods for cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.</p>

Section 7: Handling and Storage

Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place.

Section 8: Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95

(US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection

Safety glasses

Hygiene measures

General industrial hygiene practice.

Section 9: Physical and Chemical Properties

Appearance

Form solid

Safety data

pH no data available

Melting point no data available

Boiling point no data available

Flash point 90 °C (194 °F) - closed cup

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

Section 10: Stability and Reactivity Data

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section 11: Toxicological Information

Acute toxicity

LD50 Oral - rat - 8,530 mg/kg

LD50 Dermal - rabbit - 15,900 mg/kg

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Potential Health Effects

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

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

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

Additional Information

Section 12: Ecological Information

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 0.48 mg/l - 96 h

Further information on ecology

no data available

Section 13: Disposal Considerations

Product

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information

DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

Section 15: Other Regulatory Information

OSHA Hazards
No known OSHA hazards
DSL Status
All components of this product are on the Canadian DSL list.
SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards
No SARA Hazards
Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components
Dibutyl fumarate
CAS-No.
105-75-9
Revision Date
New Jersey Right To Know Components
Dibutyl fumarate
CAS-No.
105-75-9
Revision Date
California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

Section 16: Other Information
References: Not available. Other Special Considerations: Not available. Created: 10/09/2005 06:31 PM Last Updated: 05/21/2016 12:00 PM

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