

Section 1. Product and Company Identification

Product Name Diocetyl phthalate
CAS Number 117-81-7

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Section 2. Hazards Identification

Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Reproductive toxicity: (Category 1B), H360

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard statement(s)

H360: May damage fertility or the unborn child.

Precautionary statement(s)

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P405: Store locked up.

P501: Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS: Endocrine disrupting chemical(s)

Section 3. Composition / Information on Ingredients

Common Name	Dioctyl phthalate
Synonym(s)	Bis(2-ethylhexyl) phthalate; Phthalic acid bis(2-ethylhexyl ester)
Formula	C ₂₄ H ₃₈ O ₄
CAS Number	117-81-7

COMPONENT	CAS NUMBER	CONCENTRATION
Dioctyl phthalate	117-81-7	≤ 100%

Section 4. First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Indication of any immediate medical attention and special treatment needed: No data available

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: No data available

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: No data available

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3/toxic hazardous materials or hazardous materials causing chronic effects

Section 8. Exposure Controls / Personal Protection

Components with workplace control parameters

Component	CAS-No.	Value	Control Parameters	Basis
bis(2-Ethylhexyl) phthalate	117-81-7	TWA	5.000000 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Lower Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans		
		TWA	5.000000 mg/m ³	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		ST	10.000000 mg/m ³	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		TWA	5.000000 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	5 mg/m ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye



protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.2 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 230 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 9. Physical and Chemical Properties

Appearance Form: liquid

Odor: No data available

Odor Threshold: No data available

pH: No data available

Melting point/freezing point: Melting point/range: -50 °C (-58 °F)

Initial boiling point and boiling range: 384 °C (723 °F)

Flash point: 207 °C (405 °F) - closed cup

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: Lower explosion limit: 0.3 %(V)

Vapor pressure: 1.6 hPa (1.2 mmHg) at 93.0 °C (199.4 °F)

Vapor density: No data available

Relative density: 0.985 g/cm³ at 25 °C (77 °F)
Water solubility: insoluble
Partition coefficient n-octanol/water: No data available
Auto-ignition temperature: 390.0 °C (734.0 °F)
Decomposition temperature: No data available
Viscosity: No data available
Explosive properties: No data available
Oxidizing properties: No data available
Other safety information: No data available

Section 10. Stability and Reactivity

Reactivity: No data available
Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: No data available
Conditions to avoid: No data available
Incompatible materials: Strong oxidizing agents
Hazardous decomposition products formed under fire conditions: Carbon oxides
Other decomposition products: No data available

Section 11. Toxicological Information

Acute toxicity: LD50 Oral - Rat - 30,000 mg/kg
Inhalation: No data available
LD50: Dermal - Rabbit - 25,000 mg/kg
No data available

Skin corrosion/irritation

Skin: Rabbit
Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation

Eyes: Rabbit
Result: Mild eye irritation - 24 h

Respiratory or skin sensitization

Maximization Test: Guinea pig
Result: Does not cause skin sensitization. (OECD Test Guideline 406)

Germ cell mutagenicity: No data available

Carcinogenicity: This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (bis(2-Ethylhexyl) phthalate)



NTP: Reasonably anticipated to be a human carcinogen (bis(2-Ethylhexyl) phthalate)
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.

Reproductive toxicity: May cause congenital malformation in the fetus. Presumed human reproductive toxicant. May cause reproductive disorders.

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Additional Information

RTECS: TI0350000. Effects due to ingestion may include: Gastrointestinal disturbance Kidney

Section 12. Ecological Information

Toxicity

Toxicity to fish

LC50: Pimephales promelas (fathead minnow) - > 0.67 mg/l - 96 h

LC50: Oncorhynchus mykiss (rainbow trout) - > 0.32 mg/l - 96 h

LC50: Cyprinodon variegatus (sheepshead minnow) - > 0.17 mg/l - 96 h

LC50: Lepomis macrochirus (Bluegill) - > 0.20 mg/l - 96 h

NOEC: other fish - > 0.3 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

Immobilization EC50: Daphnia magna (Water flea) - > 0.16 mg/l - 48 h

Persistence and degradability

Biodegradability Result: Readily biodegradable (OECD Test Guideline 301)

Bioaccumulative potential

Bioaccumulation: Oncorhynchus mykiss (rainbow trout) - 100 d - 0.014 mg/l

Bioconcentration factor (BCF): 113

Remarks: Does not bioaccumulate.

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information



DOT (US)

UN number: 3082

Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (bis(2-Ethylhexyl) phthalate)

Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG: Not dangerous goods

IATA: Not dangerous goods

Section 15. Regulatory Information

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313: bis(2-Ethylhexyl) phthalate CAS-No. 117-81-7 Revision Date 2007-07-01

SARA 311/312 Hazards: Chronic Health Hazard

Massachusetts Right To Know Components: bis(2-Ethylhexyl) phthalate CAS-No. 117-81-7 Revision Date 2007-07-01

Pennsylvania Right To Know Components: bis(2-Ethylhexyl) phthalate CAS-No. 117-81-7 Revision Date 2007-07-01

New Jersey Right To Know Components: bis(2-Ethylhexyl) phthalate CAS-No. 117-81-7 Revision Date 2007-07-01

California Prop. 65 Components

WARNING: This product contains a chemical known to the State of California to cause cancer. bis(2-Ethylhexyl) phthalate CAS-No. 117-81-7 Revision Date 2009-02-01

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. bis(2-Ethylhexyl) phthalate CAS-No. 117-81-7 Revision Date 2009-02-01

HMIS Rating

Health hazard: 0

Flammability: 1

Physical Hazard: 0

NFPA Rating

Health hazard: 0

Fire Hazard: 1

Reactivity Hazard: 0



Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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