

# Safety data sheet

## PALATINOL® DOP

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(30089278/MDS\_GEN\_US/EN)

**If inhaled:**

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

**If on skin:**

Wash thoroughly with soap and water.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

**If swallowed:**

Rinse mouth immediately and then drink plenty of water, seek medical attention.

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### 5. Fire-fighting measures

Flash point:	200 °C	(DIN 51758)
Autoignition:	370 °C	(DIN 51794)
Lower explosion limit:	0.15 %(V)	
Upper explosion limit:	0.18 %(V)	

**Suitable extinguishing media:**

carbon dioxide, dry extinguishing media, water spray, water, foam

**Protective equipment for fire-fighting:**

Wear a self-contained breathing apparatus.

**Further information:**

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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### 6. Accidental release measures

**Personal precautions:**

Avoid inhalation. Avoid contact with the skin, eyes and clothing.

**Environmental precautions:**

Do not empty into drains.

**Cleanup:**

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

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### 7. Handling and storage

**Handling****General advice:**

Ensure thorough ventilation of stores and work areas.

**Storage****General advice:**

Containers should be stored tightly sealed in a dry place.

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### 8. Exposure controls and personal protection

#### Components with workplace control parameters

Di-ethylhexylphthalate	OSHA	PEL 5 mg/m <sup>3</sup> ;
	ACGIH	TWA value 5 mg/m <sup>3</sup> ;

#### Personal protective equipment

##### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapour respirator.

##### **Hand protection:**

Chemical resistant protective gloves, Suitable materials, butyl rubber

##### **Eye protection:**

Safety glasses/face shield

##### **Body protection:**

Light protective clothing

##### **General safety and hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of vapour. Avoid contact with the skin, eyes and clothing.

### 9. Physical and chemical properties

Form:	liquid	
Odour:	almost odourless	
Colour:	colourless	
pH value:	approx. 7	
pour point:	-46 °C	(DIN/ISO 3016)
Boiling range:	230 - 233 °C	( 7 mbar) (DIN 53171)
Vapour pressure:	0.00001 mbar	( 50 °C)
	1.8 mbar	( 200 °C)
	0.983 - 0.985	( 20 °C) (DIN 51757)
Density:	g/cm <sup>3</sup>	
	approx. 7.50	
Partitioning coefficient n-octanol/water (log Pow):		
Viscosity, dynamic:	77 - 82 mPa.s	( 20 °C) The value was determined by calculation from the detected kinematic viscosity.
		( 20 °C) Literature data.
Solubility in water:	0.003 mg/l	
Solubility (qualitative):	soluble	
	solvent(s): organic solvents,	

### 10. Stability and reactivity

#### **Hazardous reactions:**

Reacts with strong oxidizing agents.

#### **Decomposition products:**

No hazardous decomposition products if stored and handled as prescribed/indicated.

#### **Thermal decomposition:**

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No decomposition if used as directed.

### 11. Toxicological Information

#### Acute toxicity

##### Oral:

LD50/rat: &gt; 30,000 mg/kg

Literature data.

##### Dermal:

LD50/rabbit: &gt; 24,500 mg/kg

Literature data.

##### Skin irritation:

rabbit: non-irritant (OECD Guideline 404)

##### Eye Irritation :

rabbit: non-irritant (OECD Guideline 405)

##### Sensitization:

Buehler test/guinea pig:

no sensitizing effect

#### Chronic toxicity

##### Other information:

Reproduction toxicity studies in rats and mice: After oral administration indications of a fetotoxic effect and disturbances of the reproduction ability occurred.

### 12. Ecological information

#### Environmental fate and transport

##### Biodegradation:

Test method: OECD 301B; ISO 9439; 92/69/EEC, C.4-C  
 Method of analysis: CO<sub>2</sub> formation relative to the theoretical value  
 Degree of elimination: 70 - 80 %  
 Evaluation: Readily biodegradable (according to OECD criteria).

##### Bioaccumulation:

Fathead minnow Bioconcentration factor > 100  
 The product may be accumulated in organisms.  
 Literature data.

#### Environmental toxicity

##### Acute and prolonged toxicity to fish:

Flow through.  
 Fathead minnow/LC50 (96 h): > 0.67 mg/l  
 Literature data.

##### Acute toxicity to aquatic invertebrates:

Daphnia magna/EC50 (48 h): &gt; 0.16 mg/l

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OECD Guideline 202, part 1 Daphnia magna/EC50 (48 h): > 100 mg/l  
The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

### Toxicity to aquatic plants:

green algae/EC50 (96 h): > 0.1 mg/l  
Literature data.

ETAD method, modified OECD Guideline 201 green algae/EC50 (72 h): > 130 mg/l

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. Literature data.

### Toxicity to microorganisms:

DIN/EN/ISO 8192-OECD 209-88/302/EEC, P. C : > 2,000 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Literature data.

### Other ecotoxicological advice:

Do not release untreated into natural waters.

## 13. Disposal considerations

### Waste disposal of substance:

Do not discharge into waterways or sewer systems without proper authorization.  
Dispose of in accordance with national, state and local regulations.

### Contaminated packaging:

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility.

## 14. Transport information

Reference Bill of Lading

## 15. Regulatory information

### Federal Regulations

#### Registration status:

TSCA, US released / listed

#### SARA 313:

#### CAS Number

117-81-7

#### Chemical name

Di-ethylhexylphthalate

### State regulations

#### State RTK

#### CAS Number

117-81-7

#### Chemical name

Di-ethylhexylphthalate

#### State RTK

MA, NJ, PA

#### CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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(30089278/MDS\_GEN\_US/EN)**16. Other information**

Recommended use: for industrial use only

**HMIS III rating**

Health: 1      Flammability: 1      Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

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