

Safety data sheet
PALATINOL® DOP

Revision date : 2004/04/27

Version: 1.1

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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.

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.

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.

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 ³ ;
	ACGIH	TWA value 5 mg/m ³ ;

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 ³	
	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: > 30,000 mg/kg

Literature data.

Dermal:

LD50/rabbit: > 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: CO₂ 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): > 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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