



The Chemical Company

Distributed By:
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REC'D MAY 28 2009

Safety data sheet PALATINOL® DOP

Diocetyl Phthalate

Revision date : 2007/05/09
Version: 2.5

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(30089278/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

Chemical family: phthalate acid ester

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
117-81-7	> 99.6 %	Di-ethylhexylphthalate

3. Hazard identification

Emergency overview

CAUTION: Contains a suspect carcinogen.
Avoid contact with the skin, eyes and clothing.
Avoid inhalation of mists/vapours.
Use with local exhaust ventilation.
Wear a NIOSH-certified (or equivalent) organic vapour respirator.
Wear NIOSH-certified chemical goggles.
Wear chemical resistant protective gloves.
Wear protective clothing.
Eye wash fountains and safety showers must be easily accessible.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

No known acute effects.

Repeated dose toxicity:

Information on: DEHP

Studies indicate that the compound is not genotoxic. In rodents, chronic overexposure has led to liver tumors and testicular toxicity. The compound is not expected to pose a significant health risk to humans due to the significant difference in the toxic response observed between rodents and non-human primates. A recent review by IARC reclassified DEHP as Group3 "not classifiable".

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4. First-aid measures

General advice:

Immediately remove contaminated clothing.

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 irritation develops, seek medical attention.

If in eyes:

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

Seek medical attention.

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:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

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.

NFPA Hazard codes:

Health : 1 Fire: 1 Reactivity: 0 Special:

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.

8. Exposure controls and personal protection

Components with workplace control parameters

Di-ethylhexylphthalate	OSHA	PEL 5 mg/m3 ;
	ACGIH	TWA value 5 mg/m3 ;

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Breathing protection if gases/vapours are formed. Wear a NIOSH-certified (or equivalent) organic vapour respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Chemical resistant protective gloves, Suitable materials, butyl rubber, Consult with glove manufacturer for testing data.

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen based on level of activity and exposure.

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)
Density:	0.983 - 0.985	(20 °C) (DIN 51757)
	g/cm3	
Partitioning coefficient n-octanol/water (log Pow):	approx. 7.50	
Viscosity, dynamic:	77 - 82 mPa.s	(20 °C) The value was determined by calculation from the detected kinematic viscosity.
Solubility in water:	0.003 mg/l	(20 °C) Literature data.
Solubility (qualitative):	soluble	
	solvent(s): organic solvents,	

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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:

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).

Environmental toxicity

Acute and prolonged toxicity to fish:

Flow through.

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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
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.

Container disposal:

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

RCRA: U028

14. Transport information

Land transport

USDOT

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Sea transport

IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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Air transport IATA/CAO

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

15. Regulatory information

Federal Regulations

Registration status:
TSCA, US released / listed

OSHA hazard category: NTP listed carcinogen, Chronic target organ effects reported, ACGIH TLV established

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
100 LBS SARA 313:	117-81-7	Di-ethylhexylphthalate

<u>CAS Number</u>	<u>Chemical name</u>
117-81-7	Di-ethylhexylphthalate

State regulations

State RTK

<u>CAS Number</u>	<u>Chemical name</u>	<u>State RTK</u>
117-81-7	Di-ethylhexylphthalate	MA, NJ, PA

CA Prop. 65:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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.

Local contact information

prod_reg@basf.com

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