

Safety Data Sheet

Palatinol DOTP

Revision date : 2020/10/26
Version: 4.0

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(30578498/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Palatinol DOTP

Recommended use of the chemical and restriction on use

Recommended use*: for industrial use only

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family:	Preparation based on: organic compounds
Synonyms:	Not available. Use: plasticizers

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

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Hazards not otherwise classified

No applicable information available.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
CAS Number: 6422-86-2
Content (W/W): 99.0 - 100.0%
Synonym: No data available.

Under the referenced regulation, this product does not contain any components classified for health hazards above the relevant cut off value.

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If on skin:

Wash affected areas 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:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: No applicable information available.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

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Suitable extinguishing media:
carbon dioxide, dry powder, water spray, foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
The product is combustible. Cool endangered containers with water-spray.

Advice for fire-fighters

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions

Do not empty into drains.

Methods and material for containment and cleaning up

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

Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:
Avoid all sources of ignition: heat, sparks, open flame.

Conditions for safe storage, including any incompatibilities

Segregate from strong oxidizing agents.

Further information on storage conditions: Keep container tightly closed. Keep away from heat.

8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

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Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields. Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

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

9. Physical and Chemical Properties

Form:	liquid	
Odour:	almost odourless	
Colour:	colourless	
pH value:	not soluble, not applicable	
Freezing point:	< -67.2 °C	
Melting point:	No data available.	
boiling temperature:	375 °C (101.325 kPa)	
Boiling range:	No data available.	
Sublimation point:	No applicable information available.	
Flash point:	212 °C	(ASTM D3278)
Flammability:	No applicable information available.	
Lower explosion limit:	No applicable information available.	
Upper explosion limit:	No applicable information available.	
Autoignition:	387 °C	
Vapour pressure:	< 0.00001 hPa (25 °C) negligible	
Density:	0.98 g/cm3 (20 °C)	
Relative density:	No applicable information available.	
Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	65.8 mPa.s (25 °C)	(OECD 114)
Viscosity, kinematic:	No applicable information available.	
Solubility in water:	practically insoluble	
Miscibility with water:	immiscible	
Solubility (quantitative):	No applicable information available.	
Solubility (qualitative):	soluble	
	solvent(s): organic solvents,	
Molar mass:	390.56 g/mol	

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Evaporation rate: No data available.

10. Stability and Reactivity

Reactivity

No applicable information available.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.

Conditions to avoid

Avoid extreme temperatures.

Incompatible materials

strong oxidizing agents

Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

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

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Oral

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg (other)

Inhalation

No applicable information available.

Dermal

Type of value: LD50

Species: guinea pig

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Value: > 19,680 mg/kg (other)

Assessment other acute effects

No applicable information available.

Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. May cause slight irritation to the eyes.

Skin

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

Species: human

Result: non-irritant

Method: other

Eye

Species: rabbit

Result: Slightly irritating.

Method: OECD Guideline 405

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. The substance did not cause skin sensitization in humans.

other

Species: human

Result: Non-sensitizing.

Method: Human patch test

other

Species: guinea pig

Result: Non-sensitizing.

Method: other

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects.

Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not genotoxic in mammalian cell culture.

Carcinogenicity

Assessment of carcinogenicity: In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed.

None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

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Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms.

No toxic effects occur within the range of solubility. There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish

LC50 (7 d) > 0.25 mg/l, *Salmo gairdneri*, syn. *O. mykiss* (other, Flow through.)

No toxic effects occur within the range of solubility.

LC50 (96 h) > 984 mg/l, *Pimephales promelas* (OECD Guideline 203, static)

Aquatic invertebrates

EC50 (48 h) > 1.4 ug/L, *Daphnia magna* (OECD Guideline 202, part 1, static)

No toxic effects occur within the range of solubility.

EC50 (96 h) > 624 ug/L, *Crassostrea virginica* (other, Flow through.)

Aquatic plants

EC50 (72 h) > 0.86 mg/l (growth rate), *Selenastrum capricornutum* (OECD Guideline 201, static)

Chronic toxicity to fish

No observed effect concentration (60 d) > 0.28 mg/l, *Oncorhynchus mykiss* (other, Flow through.)

No toxic effects occur within the range of solubility.

Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) > 0.76 mg/l, *Daphnia magna* (OECD Guideline 211, Flow through.)

No toxic effects occur within the range of solubility.

Assessment of terrestrial toxicity

No toxic effects have been observed in studies with terrestrial plants.

With high probability not acutely harmful to terrestrial organisms. No effects at the highest test concentration.

Toxicity to terrestrial plants

EC50 (14 d) > 1400-1500 ug/L (other)

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

OECD Guideline 209 aquatic

activated sludge of a predominantly domestic sewage/EC50 (3 h): 10 mg/l

No toxic effects occur within the range of solubility.

Persistence and degradability

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Assessment biodegradation and elimination (H₂O)
Readily biodegradable (according to OECD criteria).

Elimination information

73.5 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic, non-adapted) Readily biodegradable.

Assessment photodegradation

After evaporation or exposure to the air, the product will be rapidly degraded by photochemical processes.
The product has not been tested. The statement has been derived from the structure of the product.

Photodegradation

t_{1/2} (Direct photolysis) 0.487 d; OH radical (calculated)

Bioaccumulative potential

Assessment bioaccumulation potential

Accumulation in organisms is not to be expected.

Bioaccumulation potential

Bioconcentration factor: 393 (38 d)

Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Dispose of in a licensed facility. Do not discharge substance/product into sewer system. Dispose of in accordance with national, state and local regulations.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

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15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

NFPA Hazard codes:

Health: 0 Fire: 0 Reactivity: 0 Special:

HMIS III rating

Health: 0 Flammability: 0 Physical hazard: 0

16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2020/10/26

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