

Safety data sheet

PALATINOL* N

Revision date : 2006/02/16
Version: 2.1

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(30034681/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: (800) 424-9300
BASF HOTLINE: (800) 832-HELP

Synonyms: PALATINOL N

2. Composition/information on ingredients

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u> |
|-------------------|----------------------|----------------------|
| 28553-12-0 | >= 99.6 - <= 100.0 % | Di-isononylphthalate |

3. Hazard identification

Emergency overview

CAUTION: INGESTION MAY CAUSE GASTRIC DISTURBANCES.
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/particulate respirator.
Wear safety glasses with side-shields.
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.

Medical conditions aggravated by overexposure:

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.
See MSDS section 11 - Toxicological information.

4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.
Immediate medical attention required.

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If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Note to physician

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

5. Fire-fighting measures

| | | |
|------------------------|------------|----------------------|
| Flash point: | 240 °C | (DIN/ISO 2592) |
| Autoignition: | 375 °C | (DIN 51794) |
| Lower explosion limit: | < 0.1 %(V) | (178.7 °C, 1.0 hPa) |
| Upper explosion limit: | 0.4 %(V) | (210.4 °C, 4.5 hPa) |

Suitable extinguishing media:

water fog, foam, dry extinguishing media

Hazards during fire-fighting:

No particular hazards known.

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:

Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions:

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

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7. Handling and storage

Handling

General advice:

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

No explosion proofing necessary.

Storage

General advice:

Keep container tightly closed.

8. Exposure controls and personal protection

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

Body protection:

light protective clothing

General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists. Wash soiled clothing immediately.

9. Physical and chemical properties

| | | |
|------------------|-------------------|----------------------|
| Form: | liquid | |
| Odour: | mild | |
| Colour: | colourless | |
| pH value: | approx. 7 | |
| pour point: | -54 °C | (DIN/ISO 3016) |
| Boiling range: | 253 - 267 °C | (7 mbar) (DIN 51751) |
| Vapour pressure: | < 0.1 mbar | (20 °C) |
| | < 0.1 mbar | (50 °C) |
| Density: | 0.970 - 0.977 | (20 °C) (DIN 51757) |
| | g/cm ³ | |

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| | | |
|---|-------------------------------|-----------------------|
| Partitioning coefficient n-octanol/water (log Pow): | 10.7 | (25 °C) (calculated) |
| Viscosity, dynamic: | 68 - 82 mPa.s | (20 °C) (DIN 51562) |
| Solubility in water: | < 0.01 mg/l | (25 °C) |
| Solubility (qualitative): | soluble | |
| | solvent(s): organic solvents, | |

10. Stability and reactivity

Conditions to avoid:

No data available. Avoid extreme heat. Avoid sources of ignition.

Substances to avoid:

strong oxidizing agents

Hazardous reactions:

The product is chemically stable.

Decomposition products:

carbon monoxide, carbon dioxide

Corrosion to metals:

No corrosive effect on metal.

11. Toxicological information

Acute toxicity**Oral:**

LD50/rat: > 5,000 mg/kg (BASF-Test)

Inhalation:

rat:

Inhalation-risk test (IRT): No mortality within 7 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Skin irritation:

rabbit: non-irritant (OECD Guideline 404)
Literature data.

Eye irritation :

rabbit: non-irritant (OECD Guideline 405)
Literature data.

12. Ecological information

Environmental fate and transport

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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: 80 - 90 %
Evaluation: Based on OECD criteria the product is readily biodegradable.

Bioaccumulation:

OECD Guideline 305 C
carp Bioconcentration factor < 14.4
Does not significantly accumulate in organisms.

Environmental toxicity**Acute and prolonged toxicity to fish:**

EPA 72-1 Flow through.
Fathead minnow/LC50 (96 h): > 0.19 mg/l
Literature data.
DIN 38412 Part 15 golden orfe/LC50 (96 h): > 500 mg/l
Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration.

Acute toxicity to aquatic invertebrates:

OECD Guideline 202, part 1 Daphnia magna/EC50 (48 h): > 500 mg/l
The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.
OPP 72-2 (EPA-guideline) Daphnia magna/EC50 (48 h): > 0.086 mg/l
Literature data.

Toxicity to aquatic plants:

DIN 38412 Part 9 green algae/EC50 (72 h): > 500 mg/l
The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

Toxicity to microorganisms:

DIN/EN/ISO 8192-OECD 209-88/302/EEC,P. C EC20 (3 h): > 83 mg/l
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Other ecotoxicological advice:

Do not release untreated into natural waters. According to the criteria of Guidelines 67/548/EEC and 1999/45/EC the product is not to be classified as environmental hazard.

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

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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

15. Regulatory information

Federal Regulations

Registration status:

TSCA, US released / listed

OSHA hazard category: No data available.

SARA hazard categories (EPCRA 311/312): Not hazardous

State regulations

State RTK

| <u>CAS Number</u> | <u>Chemical name</u> | <u>State RTK</u> |
|-------------------|----------------------|------------------|
| 28553-12-0 | Di-isononylphthalate | NJ, PA |

16. Other information

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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