

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 29.05.2025  
Product: **PALATINOL® N**

Version: 5.2

(30034681/SDS\_GEN\_AU/EN)

Date of print: 16.10.2025

## 1. Substance/preparation and manufacturer/supplier identification

**Product name:**  
**PALATINOL® N**

Use: plasticizers

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)  
Level 23, 40 City Road, Southbank  
Victoria 3006, AUSTRALIA  
Telephone: +61 3 8855-6600

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]  
BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

## 2. Hazard identification

Classification of the substance and mixture:

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

Label elements and precautionary statement:

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

Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.  
See section 12 - Results of PBT and vPvB assessment.

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### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: Substance

Di-isononylphthalate

CAS Number: 28553-12-0

No particular hazards known.

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### 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

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

On ingestion:

Rinse mouth and then drink 200-300 ml of water.

Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Treatment: Symptomatic treatment (decontamination, vital functions).

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### 5. Fire-Fighting Measures

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

Specific hazards:

The product is combustible. Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

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Special protective equipment:

Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:

Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Further information:

Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

Personal precautions:

Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions:

Discharge into the environment must be avoided.

Methods for cleaning up or taking up:

Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

Additional information: High risk of slipping due to leakage/spillage of product.

Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

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## 7. Handling and Storage

Handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

No special precautions necessary. Substance/product is non-flammable.

Storage

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

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## 8. Exposure controls and personal protection

Components with occupational exposure limits

No substance specific occupational exposure limits known.

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

#### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

butyl rubber (butyl) - 0.7 mm coating thickness

Manufacturer's directions for use should be observed because of great diversity of types.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

## 9. Physical and Chemical Properties

Form:	liquid
Colour:	colourless
Odour:	almost odourless
Odour threshold:	not determined

#### pH value:

not applicable, of very low solubility

#### pour point:

-54 °C

(DIN ISO 3016)

#### Boiling point:

252.4 °C  
(7 hPa)

#### Flash point:

222 °C  
Literature data.

#### Evaporation rate:

Value can be approximated from  
Henry's Law Constant or vapor  
pressure.

Flammability (solid/gas): hardly combustible

(derived from flash point)

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Lower explosion limit:	(174.6 °C, approx. 1013 hPa) The lower explosion point of the substance/mixture has been determined. The explosion point describes the temperature of a flammable liquid at which the concentration of the saturated vapour mixed with air equals the lower explosion limit., As a consequence of the thermal decomposition behaviour (see Thermal decomposition) the determination of the lower explosion point according to standard DIN EN 15794 does not generate a globally meaningful value.	(DIN EN 15794, air)
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	375 °C	(DIN 51794)
Thermal decomposition:	When exposed to high temperatures over a long period of time, formation of outgassing flammable decomposition products may occur.	
Self ignition:	Based on its structural properties the product is not classified as self-igniting.	Test type: Spontaneous self-ignition at room-temperature.
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	
Vapour pressure:	0.00001 Pa (20 °C) Literature data.	
Density:	0.97 g/cm <sup>3</sup> (21.4 °C) Literature data.	(DIN 51757)
Relative density:	0.970 - 0.977 (20 °C)	
Relative vapour density (air):	14.4 (20 °C) Heavier than air.	(calculated)
Solubility in water:	< 0.1 mg/l (25 °C)	
Solubility (qualitative) solvent(s):	organic solvents soluble	

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Partitioning coefficient n-octanol/water (log Pow): 9.27  
(20 °C)  
Literature data.

Adsorption/water - soil: KOC: 947900; log KOC: 6 (calculated)

Surface tension:  
Study scientifically not justified.

Viscosity, dynamic: 68 - 82 mPa.s  
(20 °C)  
The value was determined by  
calculation from the detected  
kinematic viscosity.

Molar mass: 418.62 g/mol

#### Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

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## 10. Stability and Reactivity

Conditions to avoid:  
No special precautions other than good housekeeping of chemicals.

Thermal decomposition: When exposed to high temperatures over a long period of time, formation of outgassing flammable decomposition products may occur.

Substances to avoid:  
strong oxidizing agents

Corrosion to metals: No corrosive effect on metal.

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

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

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

Reactivity:  
No hazardous reactions if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Routes of exposure

**Acute oral toxicity**

Experimental/calculated data:  
LD50rat (oral): > 10,000 mg/kg (BASF-Test)

**Acute inhalation toxicity**

LC50 rat (by inhalation): > 4.4 mg/l 4 h (IRT)  
An aerosol was tested.

**Acute dermal toxicity**

LD50 rabbit (dermal): > 3,160 mg/kg

**Assessment of acute toxicity**

Virtually nontoxic after a single ingestion. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard. Virtually nontoxic after a single skin contact.

**Symptoms**

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

**Irritation**

Assessment of irritating effects:  
Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:  
Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (Draize test)

**Respiratory/Skin sensitization**

Assessment of sensitization:  
Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:  
Guinea pig maximization test guinea pig: Non-sensitizing. (Guideline 92/69/EEC, B.6)

**Germ cell mutagenicity**

Assessment of mutagenicity:  
No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in a test with mammals.

**Carcinogenicity**

Assessment of carcinogenicity:  
In long-term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results are thought to be due to a rodent-specific liver effect that is not relevant to humans.

**Reproductive toxicity**

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

## Developmental toxicity

Assessment of teratogenicity:

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

## Specific target organ toxicity (single exposure)

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

## Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Repeated exposure to high doses of the substance causes reversible liver changes in rodents. According to present knowledge, these effects do not occur in man. Effects on the kidney of male rats were detected after repeated exposure. These effects are specific for the male rat and are known to be of no relevance to humans.

## Aspiration hazard

not applicable

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## 12. Ecological Information

### Ecotoxicity

Assessment of aquatic toxicity:

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 (96 h) > 102 mg/l, *Brachydanio rerio* (Directive 92/69/EEC, C.1, semistatic)

The statement of the toxic effect relates to the analytically determined concentration.

Aquatic invertebrates:

EC50 (48 h) > 74 mg/l, *Daphnia magna* (Directive 92/69/EEC, C.2, static)

The statement of the toxic effect relates to the analytically determined concentration.

No observed effect concentration (10 d) 2680 mg/kg, *Chironomus tentans* (static)

The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic plants:

EC50 (72 h) > 88 mg/l (growth rate), *Scenedesmus subspicatus* (Guideline 92/69/EEC, C.3, static)

The statement of the toxic effect relates to the analytically determined concentration.

Microorganisms/Effect on activated sludge:

EC0 (30 min) 83.9 mg/l, activated sludge, domestic (OECD Guideline 209, aquatic)

The statement of the toxic effect relates to the analytically determined concentration.



Analogous: Assessment derived from products with similar chemical character.

Chronic toxicity to fish:

No observed effect concentration (284 d) 0,0185-0,0245 mg/g feed, *Oryzias latipes* (OECD Guideline 210, Flow through.)

Analogous: Assessment derived from products with similar chemical character.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d), > 101 mg/l, *Daphnia magna* (OECD Guideline 202, part 2, semistatic)

The statement of the toxic effect relates to the analytically determined concentration.

Assessment of terrestrial toxicity:

Soil living organisms:

LC50 (14 d) > 7,372 mg/kg, *Eisenia foetida* (OECD Guideline 207, artificial soil)

Analogous: Assessment derived from products with similar chemical character.

No observed effect concentration (56 d) > 982.4 mg/kg, *Eisenia foetida* (OECD Guideline 222, artificial soil)

Analogous: Assessment derived from products with similar chemical character.

Terrestrial plants:

No observed effect concentration (22 d), *Lactuca sativa* (OECD Guideline 208)

Other terrestrial non-mammals:

No data available.

## Mobility

Assessment transport between environmental compartments:

The substance will slowly evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is expected.

## Persistence and degradability

Elimination information:

81 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (Directive 84/449/EEC, C.5) (aerobic, activated sludge, domestic, non-adapted)

Assessment of stability in water:

In contact with water the substance will hydrolyse slowly.

Information on Stability in Water (Hydrolysis):

$t_{1/2}$  3.43 a (25 °C, pH value 7), (calculated, pH 7)

$t_{1/2}$  125.19 d (25 °C, pH value 8), (calculated, other)

## Bioaccumulation potential

Assessment bioaccumulation potential:

Accumulation in organisms is not to be expected.

Bioaccumulation potential:

Bioconcentration factor: < 3 (14 d), *Oncorhynchus mykiss* (measured)

Analogous: Assessment derived from products with similar chemical character.

### Additional information

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 classify as environmental hazard.

## 13. Disposal Considerations

Dispose of in accordance with national, state and local regulations.

Contaminated packaging:

Disposal must be made according to official regulations.

## 14. Transport Information

### Domestic transport:

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Sea transport

#### IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
	Marine pollutant: no
Special precautions for user	None known

### Air transport

#### IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

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### Maritime transport in bulk according to IMO instruments

Regulation:	IBC-Code
Product name:	Dialkyl (C9-C10) phthalates
Pollution category:	Y
Ship Type:	2

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## 15. Regulatory Information

### Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Not Scheduled

### **Registration status:**

AICIS, AU

Listed in AICIS or exempted., Restrictions/information requirement obligations may apply., Please contact your BASF representative.

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## 16. Other Information

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.