

Safety Data Sheet

PALATINOL® M

Revision date : 2025/08/26

Version: 2.0

Page: 1/11

(30034815/SDS_GEN_CA/EN)

1. Identification

Product identifier used on the label

PALATINOL® M

Recommended use of the chemical and restriction on use

Recommended use*: plasticizers

Recommended use*: industrial chemicals

Unsuitable for use: FIFRA pesticide inert

* 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 Canada Inc.
5025 Creekbank Road
Building A, Floor 2
Mississauga, ON, L4W 0B6, CANADA

Telephone: +1 289 360-1300

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification

Chemical family: Phthalate esters

Synonyms: Not available. Use: plasticizers

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2022-272)

Classification of the product

Aquatic Acute

3

Hazardous to the aquatic environment - acute

Label elements

Safety Data Sheet

PALATINOL® M

Revision date: 2025/08/26
Version: 2.0

Page: 2/11
(30034815/SDS_GEN_CA/EN)

Hazard Statement:
H402 Harmful to aquatic life.

Precautionary Statements (Prevention):
P273 Avoid release to the environment.

Precautionary Statements (Disposal):
P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified

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.

3. Composition / Information on Ingredients

According to Hazardous Products Regulations (HPR) (SOR/2022-272)

dimethyl phthalate
CAS Number: 131-11-3
Content (W/W): ≥ 99.5 - $\leq 100.0\%$
Synonym: 1,2-Benzenedicarboxylic acid dimethyl ester; Phthalic acid dimethyl ester, Dimethyl phthalate

The actual concentration is withheld as a trade secret.

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air.

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 and then drink 200-300 ml of water.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Safety Data Sheet

PALATINOL® M

Revision date: 2025/08/26

Version: 2.0

Page: 3/11

(30034815/SDS_GEN_CA/EN)

Hazards: (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

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.

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

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

Advice for fire-fighters

Protective equipment for fire-fighting:

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

Further information:

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

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

Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

6. Accidental release measures

Further accidental release measures:

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.

Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions

Discharge into the environment must be avoided.

Safety Data Sheet

PALATINOL® M

Revision date: 2025/08/26
Version: 2.0

Page: 4/11
(30034815/SDS_GEN_CA/EN)

Methods and material for containment and cleaning 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.

7. Handling and Storage

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

No applicable information available.

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

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

dimethyl phthalate	ACGIH, US:	TWA value 5 mg/m ³ ;
	OSHA Z1:	PEL 5 mg/m ³ ;

Advice on system design:

Ensure adequate ventilation.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles).

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. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

9. Physical and Chemical Properties

Physical state: liquid

Form: liquid

Safety Data Sheet

PALATINOL® M

Revision date: 2025/08/26

Version: 2.0

Page: 5/11

(30034815/SDS_GEN_CA/EN)

Odour:	almost odourless	
Odour threshold:	not determined	
Colour:	colourless	
pH value:	not applicable, of very low solubility	
Freezing point:	0.36 °C	(other)
Boiling point:	283.1 °C (1,013 hPa)	(other)
Sublimation point:	No applicable information available.	
Flash point:	158 °C	(DIN 51758, closed cup)
Flammability:	not flammable	(other)
Lower explosion limit:	1.2 %(V) (144 °C) 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.	(air)
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	470 °C	(DIN 51794)
SADT:	Study scientifically not justified. Not a substance/mixture liable to self-decomposition according to GHS.	
Vapour pressure:	0.0013 hPa (20 °C) dynamic	(measured)
Density:	1.1917 g/cm3 (20 °C) Literature data.	(pycnometer)
Relative density:	1.1917 (20 °C) Literature data.	(pycnometer)
Relative vapour density:	6.69 (20 °C) Heavier than air.	(calculated)
Partitioning coefficient n-octanol/water (log Pow):	1.54 (25 °C)	(OECD Guideline 107)
Self-ignition temperature:	not self-igniting	(other)
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	17.2 mPa.s (25 °C) Literature data.	
Viscosity, kinematic:	No applicable information available.	
Solubility in water:	4.0 g/l (25 °C)	
Solubility (quantitative):	No applicable information available.	
Solubility (qualitative):	soluble solvent(s): organic solvents,	
Molecular weight:	194.19 g/mol	

Safety Data Sheet

PALATINOL® M

Revision date: 2025/08/26

Version: 2.0

Page: 6/11

(30034815/SDS_GEN_CA/EN)

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

Particle characteristics

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

10. Stability and Reactivity

Reactivity

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

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing. (other)

Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.
-------------------------------	----------	--

Chemical stability

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

Possibility of hazardous reactions

Reacts with strong oxidizing agents.

Conditions to avoid

No special precautions other than good housekeeping of chemicals.

Avoid freezing.

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

Safety Data Sheet

PALATINOL® M

Revision date: 2025/08/26

Version: 2.0

Page: 7/11

(30034815/SDS_GEN_CA/EN)

Acute toxicity

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

Oral

Type of value: LD50

Species: rat

Value: 8,200 mg/kg

Literature data.

Inhalation

Type of value: LC0

Species: rat

Value: > 10.4 mg/l (IRT)

Exposure time: 6 h

The vapour was tested.

No mortality within the stated exposition time as shown in animal studies. Literature data.

Dermal

Type of value: LD50

Species: rabbit

Value: > 12,000 mg/kg (similar to OECD guideline 402)

Literature data.

Assessment other acute effects

Assessment of STOT single:

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

Irritation / corrosion

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

Skin

Species: rabbit

Result: non-irritant

Method: Draize test

Literature data.

Eye

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

Sensitization

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

Mouse Local Lymph Node Assay (LLNA)

Species: mouse

Result: Non-sensitizing.

Method: OECD Guideline 429

Literature data. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aspiration Hazard

Safety Data Sheet

PALATINOL® M

Revision date: 2025/08/26
Version: 2.0

Page: 8/11
(30034815/SDS_GEN_CA/EN)

not applicable

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects. The results were determined in a Screening test.

Genetic toxicity

Assessment of mutagenicity: In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays.

Carcinogenicity

Assessment of carcinogenicity: The substance did not show tumor-promoting activity in rodents after pretreatment with a carcinogenic substance. The substance showed no carcinogenic activity in animals after chronic administration to the skin.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Teratogenicity

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not 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

No data available.

Aquatic invertebrates

No data available.

Aquatic plants

EC10 (72 h) > 100 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

Chronic toxicity to fish

No observed effect concentration (102 d) 11 mg/l, Oncorhynchus mykiss (OPP 72-4 (EPA-Guideline), Flow through.)

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

Chronic toxicity to aquatic invertebrates

Safety Data Sheet

PALATINOL® M

Revision date: 2025/08/26

Version: 2.0

Page: 9/11

(30034815/SDS_GEN_CA/EN)

EC10 (21 d) > 10 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

Assessment of terrestrial toxicity

No toxic effects have been observed in studies with soil living organisms.

Soil living organisms

Toxicity to soil dwelling organisms:

No observed effect concentration (56 d) 47,200 mg/kg, Eisenia foetida (other)

The details of the toxic effect relate to the nominal concentration.

LC50 (14 d) 3,160 mg/kg, Eisenia foetida (other, artificial soil)

The details of the toxic effect relate to the nominal concentration.

Toxicity to terrestrial plants

No data available.

Other terrestrial non-mammals

No data available.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

DIN EN ISO 8192-OECD 209-88/302/EEC, P. C aquatic

activated sludge, domestic/EC20 (0.5 h): approx. 400 mg/l

The details of the toxic effect relate to the nominal concentration.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

Readily biodegradable (according to OECD criteria).

Elimination information

86 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EWG, C.4-C) (aerobic, activated sludge, domestic, non-adapted)

Assessment of stability in water

No data available.

Information on Stability in Water (Hydrolysis)

No data available.

Bioaccumulative potential

Assessment bioaccumulation potential

Does not significantly accumulate in organisms.

Bioaccumulation potential

Bioconcentration factor: 57 (21 d), Lepomis macrochirus (measured)

Mobility in soil

Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

Safety Data Sheet

PALATINOL® M

Revision date: 2025/08/26
Version: 2.0

Page: 10/11
(30034815/SDS_GEN_CA/EN)

Adsorption to solid soil phase is possible.

Additional information

Other ecotoxicological advice:
Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:

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

Container disposal:

Disposal must be made according to official regulations.

14. Transport Information

Land transport TDG

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:

Chemical DSL, CA

DSL listed and/or otherwise compliant.

Assessment of the hazard classes according to UN GHS criteria (most recent version):

Aquatic Acute	3	Hazardous to the aquatic environment - acute
---------------	---	--

16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2025/08/26

Safety Data Sheet

PALATINOL® M

Revision date: 2025/08/26

Version: 2.0

Page: 11/11

(30034815/SDS_GEN_CA/EN)

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

PALATINOL® M is a registered trademark of BASF Canada or BASF SE

Date / Revised: 2025/08/26

Date / Previous version: 2016/12/07

Version: 2.0

Previous version: 1.1

END OF DATA SHEET