1. Identification

Product identifier used on the label

PALATINOL® N

Recommended use of the chemical and restriction on use

Recommended use*: industrial chemicals

* 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.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

Telephone: +1 289 360-1300

Emergency telephone number

CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification

Synonyms: Not Available. Usage: plasticizers

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

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.

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/2015-17)

This product does not contain any components classified as hazardous under the referenced regulation.

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air. Assist in breathing if necessary. Consult a physician.

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. Do not induce vomiting. Immediate medical attention required.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant symptoms are expected due to the non-classification of the product.

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

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:
Wear a self-contained breathing apparatus.

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.

6. Accidental release measures

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.

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.

Conditions for safe storage, including any incompatibilities
Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Personal protective equipment
Respiratory protection:
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:
Chemical resistant protective gloves

Eye protection:
Tightly fitting safety goggles (chemical goggles).

Body protection:
Impermeable protective clothing
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
Odour: mild
Odour threshold: not determined
Colour: colourless
pH value: not applicable, of very low solubility
Pour point: -54 °C
Boiling point: 252.4 °C (7 hPa)
Sublimation point: No applicable information available.
Flash point: 240 °C (DIN EN 15794, air)
Lower explosion limit: (174.6 °C, approx. 1013 hPa) (DIN EN 15794, air)
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.
Upper explosion limit: For liquids not relevant for classification and labelling.
Autoignition: 375 °C (DIN 51794)
Vapour pressure: 0.00001 Pa (20 °C) (DIN 51794)
Density: 0.970 - 0.977 g/cm³ (20 °C) (DIN 51757)
Relative density: No applicable information available.
Vapour density: not determined
Partitioning coefficient n-octanol/water (log Pow): 9.27 (20 °C) (DIN 51757)
Self-ignition temperature: Based on its structural properties the product is not classified as self-igniting.
Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic: 68 - 82 mPa.s (20 °C) (DIN 51757)
The value was determined by calculation from the detected kinematic viscosity.
Viscosity, kinematic: No applicable information available.
10. Stability and Reactivity

Reactivity
No applicable information available.

Corrosion to metals:
No corrosive effect on metal.

Oxidizing properties:
Based on its structural properties the product is not classified as oxidizing.

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

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

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

Oral
Type of value: LD50
Species: rat (male/female)
Value: > 10,000 mg/kg (BASF-Test)

Inhalation
Type of value: LC50
Species: rat (male/female)
Value: > 4.4 mg/l (IRT)
Exposure time: 4 h
An aerosol was tested.

Dermal
Type of value: LD50
Species: rabbit (male/female)
Value: > 3,160 mg/kg

Assessment other acute effects
Assessment of STOT single:
Not relevant.

Irritation / corrosion
Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Skin
Species: rabbit
Result: non-irritant
Method: OECD Guideline 404

Eye
Species: rabbit
Result: non-irritant
Method: Draize test

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

Guinea pig maximization test
Species: guinea pig
Result: Non-sensitizing.
Method: Guideline 92/69/EEC, B.6

Aspiration Hazard
not applicable

Chronic Toxicity/Effects

Repeated dose toxicity
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.

Genetic toxicity
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.

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

Symptoms of Exposure
No significant symptoms are expected due to the non-classification of the product.

### 12. Ecological Information

**Toxicity**

Aquatic toxicity
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.

**Chronic toxicity to fish**
No observed effect concentration (284 d) 0,0185-0,0245 mg/g feed, Oryzias latipes (other, 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.

Soil living organisms
Toxicity to soil dwelling organisms:
LC50 (14 d) > 7,372 mg/kg, Eisenia fetida (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 fetida (artificial soil)
Analogous: Assessment derived from products with similar chemical character.

Toxicity to terrestrial plants
No observed effect concentration (22 d) 1,000 mg/kg, Lactuca sativa (OECD Guideline 208)

Other terrestrial non-mammals
Study does not need to be conducted.

Microorganisms/Effect on activated sludge
Toxicity to microorganisms
OECD Guideline 209 aquatic activated sludge, domestic/EC0 (30 min): 83.9 mg/l
Analogous: Assessment derived from products with similar chemical character.
The statement of the toxic effect relates to the analytically determined concentration.

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

Elimination information
81 % CO2 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
Study scientifically not justified.

Bioaccumulative 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.

Mobility in soil
Assessment transport between environmental compartments
The substance will slowly evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is expected.

Additional information
13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater. Do not discharge substance/product into sewer system.

Container disposal:
Uncleaned empties should be disposed of in the same manner as the contents.

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 released / listed

According to Controlled Products Regulations (CPR) (SOR/88-66)
Not WHMIS controlled.

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

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2017/04/27
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