

# Safety Data Sheet

## Ludipress®

Revision date : 2025/07/18

Version: 3.0

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(30034982/SDS\_GEN\_MX/EN)

### 1. Identification

#### Product identifier used on the label

#### Ludipress®

#### Recommended use of the chemical and restriction on use

Recommended use\*: pharmaceutical excipient

Unsuitable for use: Not intended for sale to or use by the general public.

\* 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 Mexicana S.A. de C.V.  
Av. Insurgentes Sur 975  
Col. CD. De Los Deportes,  
C.P. 03710 Ciudad de México  
MÉXICO

Telephone: +52 55 5325 2600

#### Emergency telephone number

##### 24 Hour Emergency Response Information

SETIQ: 1800-00-214-(Rep. Mexicana) or 55-59-15-88 (CDMX)

Telephone: +1-800-849-5204 or +1-833-229-1000

#### Other means of identification

Synonyms:

Preparation based on alpha-lactose-monohydrate, crosslinked 2-Pyrrolidinone, 1-ethenyl-, homopolymer

### 2. Hazards Identification

#### According to Regulation NOM-018-STPS-2015

#### Classification of the product

Combustible Dust

Combustible Dust (1)

Combustible Dust

#### Label elements

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Signal Word:  
Warning

Hazard Statement:  
May form combustible dust concentration in air.

### Hazards not otherwise classified

Fine dust produced by abrasion can form explosive mixtures with air.

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## 3. Composition / Information on Ingredients

### According to Regulation NOM-018-STPS-2015

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

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## 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.

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

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### 5. Fire-Fighting Measures

#### Extinguishing media

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

Unsuitable extinguishing media for safety reasons:  
water jet

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
Dust explosion hazard.

#### Advice for fire-fighters

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

#### Further information:

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

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### 6. Accidental release measures

#### Further accidental release measures:

Avoid dispersal of dust in the air (e.g. by clearing dusty surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

Dust can form an explosive mixture with air.

#### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing. Information regarding personal protective measures, see section 8.

#### Environmental precautions

Do not discharge into drains/surface waters/groundwater.

#### Methods and material for containment and cleaning up

For small amounts: Contain with dust binding material and dispose of.  
For large amounts: Sweep/shovel up.  
Dispose of absorbed material in accordance with regulations. Avoid raising dust.

Nonsparking tools should be used.

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### 7. Handling and Storage

#### Precautions for safe handling

Avoid dust formation. Provide exhaust ventilation if dust is formed.

Protection against fire and explosion:

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Avoid whirling up the material/product because of the danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.

### Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect from the effects of light.

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## 8. Exposure Controls/Personal Protection

No substance specific occupational exposure limits known.

### Advice on system design:

Ensure adequate ventilation. Local exhaust ventilation preferred. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

### Personal protective equipment

#### Respiratory protection:

Breathing protection if dusts are formed. Wear a NIOSH-certified (or equivalent) particulate respirator.

#### Hand protection:

Chemical resistant protective gloves

#### Eye protection:

Wear safety goggles (chemical goggles) if there is potential for airborne dust exposures.

#### Body protection:

Body protection must be chosen based on level of activity and exposure.

### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dust. Avoid contact with the skin, eyes and clothing. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

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## 9. Physical and Chemical Properties

|                 |          |
|-----------------|----------|
| Physical state: | solid    |
| Form:           | granules |

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|   |   |                                     |
|---|---|-------------------------------------|
| Odour:  | odourless   |                                     |
| Odour threshold:                                    | not applicable, odour not perceivable   |                                     |
| Colour:   | white   |                                     |
| pH value:   | No data available.  |                                     |
| Melting point:                                      | > 210 °C  |                                     |
| Freezing point:                                     | No data available.  |                                     |
| Boiling point:                                      | not applicable  |                                     |
| Flash point:  | not applicable, the product is a solid  |                                     |
| Flammability:                                       | not highly flammable  | (VDI 2263, sheet 1, 1.1 (May 1990)) |
| Lower explosion limit:                              | For solids not relevant for classification and labelling.   |                                     |
| Upper explosion limit:                              | For solids not relevant for classification and labelling.   |                                     |
| Autoignition:                                       | not applicable, the product is a solid  |                                     |
| Vapour pressure:                                    | negligible  |                                     |
| Density:  | No information is available for the absolute density. Instead the bulk density was determined as a more relevant value. |                                     |
| Bulk density:                                       | 350 - 450 kg/m <sup>3</sup>   |                                     |
| Relative vapour density:                            | not applicable  |                                     |
| Partitioning coefficient n-octanol/water (log Pow): | not applicable for mixtures   |                                     |
| Self-ignition temperature:                          | Based on its structural properties the product is not classified as self-igniting.                                      |                                     |
| Thermal decomposition:                              | approx. 215 °C (DSC (DIN 51007))  |                                     |
| Viscosity, dynamic:                                 | not applicable, the product is a solid  |                                     |
| Viscosity, kinematic:                               | not applicable  |                                     |
| Solubility in water:                                | partly soluble  |                                     |
| Solubility (qualitative):                           | insoluble   |                                     |
|   | solvent(s): organic solvents,   |                                     |
| Molecular weight:                                   | not applicable  |                                     |
| Evaporation rate:                                   | The product is a non-volatile solid.  |                                     |

## 10. Stability and Reactivity

### Reactivity

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

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

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

### Chemical stability

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

### Possibility of hazardous reactions

The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer. No hazardous reactions if stored and handled as prescribed/indicated.

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### Conditions to avoid

See SDS section 7 - Handling and storage. Avoid dust formation. Avoid electro-static charge.

### Incompatible materials

atmospheric moisture, strong oxidizing agents

### Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

approx. 215 °C (DSC (DIN 51007))

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## 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 by inhalation.

#### Oral

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer, cross-linked*

*Type of value: LD50*

*Species: rat*

*Value: > 2,000 mg/kg (BASF-Test)*

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#### Inhalation

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer, cross-linked*

*Type of value: LC50*

*Species: rat*

*Value: > 5.2 mg/l (OECD Guideline 403)*

*Exposure time: 4 h*

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#### Dermal

No data available.

#### Assessment other acute effects

No data available.

#### Irritation / corrosion

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

### Skin

No data available.

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer, cross-linked*

*Species: rabbit*

*Result: non-irritant*

*Method: Draize test*

### Eye

No data available.

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer, cross-linked*

*Species: rabbit*

*Result: non-irritant*

*Method: Draize test*

### Sensitization

Assessment of sensitization: No data available.

### Aspiration Hazard

not applicable

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: No data available.

### Genetic toxicity

Assessment of mutagenicity: No data was available concerning mutagenic activity.

### Carcinogenicity

Assessment of carcinogenicity: No data was available concerning carcinogenic activity.

### Reproductive toxicity

Assessment of reproduction toxicity: No data available.

### Teratogenicity

Assessment of teratogenicity: No data was available concerning toxicity to development.

### Other Information

The product has not been tested. The statement has been derived from the properties of the individual components.

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## 12. Ecological Information

### **Toxicity**

Aquatic toxicity

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### Assessment of aquatic toxicity:

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. The product has not been tested. The statement has been derived from the properties of the individual components.

### Aquatic toxicity

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer, cross-linked*

### *Assessment of aquatic toxicity:*

*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

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer, cross-linked  
LC50 (96 h) > 10,000 mg/l, Leuciscus idus (DIN 38412 Part 15, static)*

### Assessment of terrestrial toxicity

No data available.

## Microorganisms/Effect on activated sludge

### Toxicity to microorganisms

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer, cross-linked  
OECD Guideline 209 aerobic  
activated sludge, industrial/EC20 (0.5 h): > 1,995 mg/l*

## Persistence and degradability

### Assessment biodegradation and elimination (H<sub>2</sub>O)

Poorly eliminated from water. The product has not been tested. The statement has been derived from the properties of the individual components.

### Assessment biodegradation and elimination (H<sub>2</sub>O)

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer, cross-linked*

*Poorly eliminated from water.*

### Elimination information

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer, cross-linked*

*< 10 % DOC reduction (15 d) (OECD Guideline 302 B) (aerobic, activated sludge, industrial) Poorly eliminated from water.*

## Bioaccumulative potential

### Assessment bioaccumulation potential



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The product has not been tested.

### Bioaccumulation potential

No data available.

### Bioaccumulation potential

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer, cross-linked*

*Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.*

## Mobility in soil

### Assessment transport between environmental compartments

not determined

## Additional information

Add. remarks environm. fate & pathway:

No data available.

Other ecotoxicological advice:

The product has not been tested.

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Observe national and local legal requirements.

### **Container disposal:**

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

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## 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

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### 15. Regulatory Information

#### Federal Regulations

Not applicable

#### **NFPA Hazard codes:**

Health: 0      Fire: 1      Reactivity: 0      Special:

#### **HMIS III rating**

Health: 0      Flammability: 1      Physical hazard: 0

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### 16. Other Information

#### **SDS Prepared by:**

BASF NA Product Regulations  
SDS Prepared on: 2025/07/18

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.

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This information is considered accurate but is not exhaustive and shall only be used as a guideline based on current knowledge of the chemical substance or mixture. Safety precautions suitable for the product must be applied.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

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