

# Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 02.12.2021

Version: 2.0

Product: **Rheovis® VP 1230**

(ID no. 30041268/SDS\_GEN\_00/EN)

Date of print 23.10.2025

## 1. Identification

### Product identifier

**Rheovis® VP 1230**

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Raw material, for industrial use only

### Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Global Business Unit Resins and Additives

Telephone: +49 621 60-0

E-mail address: ed-psr@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

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

### Label elements

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Globally Harmonized System (GHS)

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

**Other hazards**According to UN GHS criteria

No specific dangers known, if the regulations/notes for storage and handling are considered.

**3. Composition/Information on Ingredients****Substances**

Not applicable

**Mixtures**Chemical nature

polyvinylpyrrolidone, in water

Hazardous ingredients (GHS)

According to UN GHS criteria

**| 2-Pyrrolidone**

Content (W/W):  $\geq 0,3\%$  -  $< 1\%$   
CAS Number: 616-45-5  
EC-Number: 210-483-1

Eye Dam./Irrit. 2A  
Repr. 1B (unborn child)  
H319, H360

Specific concentration limit:  
Repr. 1B, unborn child: 3 %

**| 2-Methyl-2H-isothiazol-3-one**

Content (W/W):  $> 0\%$  -  $< 0,025\%$   
CAS Number: 2682-20-4  
EC-Number: 220-239-6  
INDEX-Number: 613-326-00-9

Acute Tox. 2 (Inhalation - dust)  
Acute Tox. 3 (oral)  
Acute Tox. 3 (dermal)  
Skin Corr./Irrit. 1B  
Eye Dam./Irrit. 1  
Skin Sens. 1A  
Aquatic Acute 1  
Aquatic Chronic 1  
M-factor acute: 10  
M-factor chronic: 1  
H330, H317, H314, H301 + H311, H400, H410  
EUH071

Specific concentration limit:  
Skin Sens. 1A:  $\geq 0,0015\%$

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| mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Content (W/W): &gt; 0 PPM - &lt; 15

PPM

CAS Number: 55965-84-9

INDEX-Number: 613-167-00-5

Acute Tox. 3 (oral)

Acute Tox. 2 (Inhalation - mist)

Acute Tox. 2 (dermal)

Skin Corr./Irrit. 1C

Eye Dam./Irrit. 1

Skin Sens. 1A

Aquatic Acute 1

Aquatic Chronic 1

M-factor acute: 100

M-factor chronic: 100

H301, H317, H314, H310 + H330, H400, H410

EUH071

Specific concentration limit:Skin Sens. 1A:  $\geq 0,0015\%$ Eye Dam./Irrit. 1:  $\geq 0,6\%$ Eye Dam./Irrit. 2:  $0,06 - < 0,6\%$ Skin Corr./Irrit. 1C:  $\geq 0,6\%$ Skin Corr./Irrit. 2:  $0,06 - < 0,6\%$ 

For the classifications not written out in full in this section the full text can be found in section 16.

## 4. First-Aid Measures

### Description of first aid measures

| Immediately remove contaminated clothing.

If inhaled:

| If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

| Wash thoroughly with soap and water

On contact with eyes:

| Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

| Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting unless told to by a poison control center or doctor.

### Most important symptoms and effects, both acute and delayed

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

Hazards: No hazards anticipated.

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

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

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:

water jet

### Special hazards arising from the substance or mixture

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

### Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

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## 7. Handling and Storage

### Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Take precautionary measures against static discharges.

### Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Stainless steel 1.4401, Stainless steel 1.4301 (V2), Polyester resin, glass reinforced (Palatal A410)

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Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

**Specific end use(s)**

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## 8. Exposure Controls/Personal Protection

### Control parameters

#### Components with occupational exposure limits

616-45-5: 2-Pyrrolidone

2682-20-4: 2-Methyl-2H-isothiazol-3-one

55965-84-9: mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

9003-39-8: Polymer in LUVISKOL K 30 LOESUNG CA.30%

### Exposure controls

#### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: 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 for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

butyl rubber (butyl) - 0.7 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

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.

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

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. Hands and/or face should be washed before breaks and at the end of the shift.

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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	liquid	
Colour:	slightly yellowish	
Odour:	faint specific odour	
Odour threshold:	No data available.	
pH value:	7 - 10 (water, 10 %(m))	(DIN ISO 976)
solidification temperature:	approx. 0 °C	
boiling temperature:	approx. 100 °C	
<i>Information on: Water</i>		
<i>Boiling point:</i>	100 °C	
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Flash point:	> 100 °C A flash point determination is unnecessary due to the high water content.	
Evaporation rate:	not determined	
Flammability:	not applicable	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	not applicable	
Vapour pressure:	23 mbar (20 °C)	
<i>Information on: Water</i>		
<i>Vapour pressure:</i>	23,4 hPa (20 °C) <i>Literature data.</i>	
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Density:	approx. 1,07 g/cm <sup>3</sup> (20 °C)	(DIN 53217)
Relative density:	No data available.	
Relative vapour density (air):	not determined	
Solubility in water:	fully soluble	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	No data available.	
Self ignition:	not self-igniting	
Thermal decomposition:	No decomposition if used correctly.	
Viscosity, dynamic:	50 - 300 mPa.s (23 °C, 250 1/s)	(DIN EN ISO 3219)
Explosion hazard:	not explosive	

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Fire promoting properties: not fire-propagating

**Other information**

Self heating ability: Study scientifically not justified.

Miscibility with water: completely (e.g.  $\geq 90\%$ )

Surface tension: No data available.

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

Solids content: 29,0 - 31,0 % (DIN EN ISO 3251)

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**10. Stability and Reactivity****Possibility of hazardous reactions**

No hazardous reactions when stored and handled according to instructions.

**Conditions to avoid**

Avoid extreme temperatures.

**Incompatible materials**Substances to avoid:  
strong oxidizing agents**Hazardous decomposition products**:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

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**11. Toxicological Information****Information on toxicological effects**Acute toxicityExperimental/calculated data:  
LD50 rat (oral): > 2.000 mg/kgIrritationExperimental/calculated data:  
Skin corrosion/irritation rabbit: non-irritant (Draize test)Serious eye damage/irritation rabbit: Irritant. (Draize test)  
The product has not been tested. The statement has been derived from the properties of the individual components.

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Respiratory/Skin sensitization

Assessment of sensitization:

A sensitizing effect on particularly sensitive individuals cannot be excluded.

Experimental/calculated data:

| not determined

Germ cell mutagenicity

Assessment of mutagenicity:

| Based on the ingredients, there is no suspicion of a mutagenic effect.

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer**Assessment of mutagenicity:**The substance was not mutagenic in studies with mammals.*  
-----Carcinogenicity

Assessment of carcinogenicity:

| The whole of the information assessable provides no indication of a carcinogenic effect.

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer**Assessment of carcinogenicity:**In long-term animal studies in which the substance was given in high doses by feed, a carcinogenic effect was not observed.*  
-----Reproductive toxicity

Assessment of reproduction toxicity:

Not expected to cause reproductive toxicity (based on composition).

Developmental toxicity

Assessment of teratogenicity:

| Based on the ingredients, there is no suspicion of a teratogenic effect.

*Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer**Assessment of teratogenicity:**No indications of a developmental toxic / teratogenic effect were seen in animal studies.*  
-----Specific target organ toxicity (single exposure)

| Remarks: No data available.

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

Assessment of repeated dose toxicity:

| The information available on the product provides no indication of toxicity on target organs after repeated exposure.



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Aspiration hazard

| No aspiration hazard expected.

Other relevant toxicity information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

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## 12. Ecological Information

### Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Toxicity to fish:

| LC50 (96 h), Fish (other)  
| not determined

Aquatic invertebrates:

| LC50 (48 h), daphnia (other)  
| not determined

Aquatic plants:

| EC50 (72 h), algae (other)  
| not determined

Microorganisms/Effect on activated sludge:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Chronic toxicity to fish:

| No data available.

Chronic toxicity to aquatic invertebrates:

| No data available.

Assessment of terrestrial toxicity:

| No data available concerning terrestrial toxicity.

### 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 substances/products of a similar structure or composition.

Elimination information:

< 20 % DOC reduction (OECD 302B; ISO 9888; 88/302/EEC, part C) Poorly eliminated from water.

### Bioaccumulative potential

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Assessment bioaccumulation potential:

The product has not been tested.

**Mobility in soil**

Assessment transport between environmental compartments:

Volatility: No data available.

**Additional information**

Add. remarks environm. fate &amp; pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Do not release untreated into natural waters. The local regulations on waste-water treatment must be followed.

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**13. Disposal Considerations****Waste treatment methods**

Must be sent to a suitable incineration plant, observing local regulations.

A waste code in accordance with the European waste catalog (EWC) cannot be specified, due to dependence on the usage.

Observe national and local legal requirements.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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**14. Transport Information****Land transport**

ADR

	Not classified as a dangerous good under transport regulations
UN 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

RID

Not classified as a dangerous good under transport regulations

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UN 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

**Inland waterway transport**

ADN

	Not classified as a dangerous good under transport regulations
UN 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

**Transport in inland waterway vessel**

Not evaluated

**Sea transport**

IMDG

	Not classified as a dangerous good under transport regulations
UN 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

**Air transport**

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN 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

**Transport in bulk according to Annex II of MARPOL and the IBC Code**

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Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

## 15. Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

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

## 16. Other Information

Any other intended applications should be discussed with the manufacturer.

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Eye Dam./Irrit.	Serious eye damage/eye irritation
Repr.	Reproductive toxicity
Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Skin Sens.	Skin sensitization
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
H319	Causes serious eye irritation.
H360	May damage the unborn child.
H330	Fatal if inhaled.
H317	May cause an allergic skin reaction.
H314	Causes severe skin burns and eye damage.
H301 + H311	Toxic if swallowed or in contact with skin
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H301	Toxic if swallowed.
H310 + H330	Fatal in contact with skin or if inhaled
EUH071	Corrosive to the respiratory tract.

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.

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