

# Safety data sheet

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Safety data sheet according to UN GHS 4th rev.

Date / Revised: 31.12.2022

Version: 2.1

Product: **Kollidon® 30 Origin Germany**

(ID no. 30034974/SDS\_GEN\_ZA/EN)

Date of print 14.10.2025

## 1. Identification

### Product identifier

### **Kollidon® 30 Origin Germany**

Chemical name: 2-Pyrrolidinone, 1-ethenyl-, homopolymer

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

Relevant identified uses: Polymer, pharmaceutical excipient

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

Company:

### **Emergency telephone number**

National emergency number:

+27 11 203 2420

International emergency number:

Telephone: +49 180 2273-112

## 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**

Globally Harmonized System (GHS)

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

### Other hazards

#### According to UN GHS criteria

The product is under certain conditions capable of dust explosion. The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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## 3. Composition/Information on Ingredients

### Substances

#### Chemical nature

2-Pyrrolidinone, 1-ethenyl-, homopolymer  
CAS Number: 9003-39-8

### Mixtures

Not applicable

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## 4. First-Aid Measures

### Description of first aid measures

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.

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

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

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

Treatment: Symptomatic treatment (decontamination, vital functions).

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**5. Fire-Fighting Measures****Extinguishing media**

Suitable extinguishing media:

water spray, foam, dry powder, carbon dioxide

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

Carbon dioxide, nitrogen oxides

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:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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**6. Accidental Release Measures**

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. Avoid dispersal of dust in the air (e.g. by clearing dusty surfaces with compressed 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: Sweep/shovel up.

For large amounts: Sweep/shovel up.

Dispose of absorbed material in accordance with regulations. Avoid raising dust.

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**7. Handling and Storage****Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation.

Protection against fire and explosion:

The product is capable of dust explosion. Avoid dust formation. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame.

**Conditions for safe storage, including any incompatibilities**

Further information on storage conditions: Keep container tightly closed and dry.

**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

No substance specific occupational exposure limits known.

**Exposure controls**Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:

Wear chemical resistant protective gloves.

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. 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****Information on basic physical and chemical properties**

Form:	powder
Colour:	white to cream
Odour:	almost odourless
Odour threshold:	
	not determined
pH value:	3 - 5
	(10 %(m), 20 °C)
onset of melting:	131 °C
	The substance / product decomposes.

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Boiling point:	not applicable
Flash point:	not applicable, the product is a solid
Evaporation rate:	The product is a non-volatile solid.
Flammability:	not highly flammable (VDI 2263, sheet 1, 1.1)
Lower explosion limit:	For solids not relevant for classification and labelling.
Upper explosion limit:	For solids not relevant for classification and labelling.
Vapour pressure:	dropped
Relative vapour density (air):	The product is a non-volatile solid.
Solubility in water:	fully soluble
Solubility (qualitative) solvent(s):	organic solvents soluble
Partitioning coefficient n-octanol/water (log Kow):	not determined
Thermal decomposition:	400 °C (DSC (DIN 51007)) It is not a self-decomposable substance. 400 °C, > 210 kJ/kg (DSC (DIN 51007))
Viscosity, kinematic:	not applicable, the product is a solid
Explosion hazard:	Product is not explosive, however a dust explosion could result from an air / dust mixture.
Fire promoting properties:	not fire-propagating

**Other information**

Self heating ability:	It is a substance capable of spontaneous heating according to UN transport regulations class 4.2. Based on test results packaging < 3m³ are exempted from the classification.
SADT:	Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.
Minimum ignition energy:	10 - 30 mJ (1,013 hPa, 20 °C) Inductivity: 1 mH The product is capable of dust explosion.
Bulk density:	400 - 600 kg/m³
Hygroscopy:	hygroscopic

**10. Stability and Reactivity****Reactivity**

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

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Corrosion to metals: Corrosive effects to metal are not anticipated.

**Chemical stability**

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

**Possibility of hazardous reactions**

Dust explosion hazard.

**Conditions to avoid**

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

**Incompatible materials**

Substances to avoid:  
strong alkalis

**Hazardous decomposition products**

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 toxicity

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

Experimental/calculated data:  
LD50 rat (oral): > 2,000 mg/kg (BASF-Test)

LC50 rat (by inhalation): > 5.2 mg/l 4 h (OECD Guideline 403)

Irritation

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

Experimental/calculated data:  
Skin corrosion/irritation rabbit: non-irritant (Draize test)

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

Respiratory/Skin sensitization

Assessment of sensitization:  
No data available.

Germ cell mutagenicity

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**Assessment of mutagenicity:**

The substance was not mutagenic in studies with mammals.

**Carcinogenicity****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:**

No data available.

**Developmental toxicity****Assessment of teratogenicity:**

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

**Repeated dose toxicity and Specific target organ toxicity (repeated exposure)****Assessment of repeated dose toxicity:**

No data available.

**Aspiration hazard**

No data available.

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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 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) > 10,000 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)**Microorganisms/Effect on activated sludge:**

EC20 (0.5 h) &gt; 1,995 mg/l, activated sludge, industrial (OECD Guideline 209, aerobic)

### **Persistence and degradability**

**Assessment biodegradation and elimination (H2O):**

Poorly eliminated from water.

**Elimination information:**

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

### **Bioaccumulative potential**

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Bioaccumulation potential:

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:

Adsorption in soil: No data available.

### **Results of PBT and vPvB assessment**

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

### **Other adverse effects**

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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## **13. Disposal Considerations**

### **Waste treatment methods**

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

UN number or ID number: UN3088

UN proper shipping name: SELF-HEATING SOLID, ORGANIC, N.O.S. (1-ETHENYL-2-PYRROLIDINONE, HOMOPOLYMER)

Transport hazard class(es): 4.2

Packing group: III

Environmental hazards: no

Special precautions for user: Tunnel code: E

Not dangerous goods of class 4.2 in packages up to 3000 litres capacity.

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UN number or ID number: UN3088  
UN proper shipping name: SELF-HEATING SOLID, ORGANIC, N.O.S. (1-ETHENYL-2-PYRROLIDINONE, HOMOPOLYMER)

Transport hazard class(es): 4.2  
Packing group: III  
Environmental hazards: no  
Special precautions for user: Not dangerous goods of class 4.2 in packages up to 3000 litres capacity.

**Inland waterway transport**

ADN

UN number or ID number: UN3088  
UN proper shipping name: SELF-HEATING SOLID, ORGANIC, N.O.S. (1-ETHENYL-2-PYRROLIDINONE, HOMOPOLYMER)

Transport hazard class(es): 4.2  
Packing group: III  
Environmental hazards: no  
Special precautions for user: Not dangerous goods of class 4.2 in packages up to 3000 litres capacity.

**Transport in inland waterway vessel**

Not evaluated

**Sea transport**

IMDG

UN number or ID number: UN 3088  
UN proper shipping name: SELF-HEATING SOLID, ORGANIC, N.O.S. (1-ETHENYL-2-PYRROLIDINONE, HOMOPOLYMER)

Transport hazard class(es): 4.2  
Packing group: III  
Environmental hazards: no  
Marine pollutant: NO  
Special precautions for user: EmS: F-A; S-J  
Not dangerous goods of class 4.2 in packages up to 3000 litres capacity.

**Air transport**

IATA/ICAO

UN number or ID number: UN 3088  
UN proper shipping name: SELF-HEATING SOLID, ORGANIC, N.O.S. (1-ETHENYL-2-

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PYRROLIDINONE, HOMOPOLYMER)

Transport hazard class(es):	4.2
Packing group:	III
Environmental hazards:	No Mark as dangerous for the environment is needed
Special precautions for user:	Not dangerous goods of class 4.2 in packages up to 3000 litres capacity.

**Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

**Further information**

Not dangerous goods of class 4.2 in packages up to 3000 litres capacity.

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**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.

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**16. Other Information**

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

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.

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