

# Safety data sheet

## Kollidon\* CL-SF

Revision date : 2006/08/03  
Version: 1.0

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(30274400/MDS\_GEN\_US/EN)

### 1. Substance/preparation and company identification

Company

BASF CORPORATION  
100 Campus Drive  
Florham Park, NJ 07932

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP

### 2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
25249-54-1	80.0 - 100.0 %	Poly[1-(2-oxo-1-pyrrolidiny)-1,2-ethanediyl]
7732-18-5	1.0 - 5.0 %	Water
616-45-5	1.0 - 5.0 %	2-Pyrrolidone

### 3. Hazard identification

Emergency overview

CAUTION: MAY BE HARMFUL IF INHALED.  
INGESTION MAY CAUSE GASTRIC DISTURBANCES.  
Avoid contact with the skin, eyes and clothing.  
Avoid inhalation of dusts.  
Provide local exhaust ventilation to control vapours/mists.  
Wear a NIOSH-certified (or equivalent) particulate respirator.  
Wear NIOSH-certified chemical goggles.  
Wear chemical resistant protective gloves.  
Wear protective clothing.  
Eye wash fountains and safety showers must be easily accessible.

Potential health effects

**Primary routes of exposure**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

**Acute toxicity:**

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation.

**Irritation:**

Not irritating to the skin. Not irritating to the eyes.

Potential environmental effects

**Aquatic toxicity:**

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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.

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### 4. First-aid measures

**General advice:**

Remove contaminated clothing.

**If inhaled:**

Keep patient calm, remove to fresh air.

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

**If on skin:**

Wash thoroughly with soap and water.

If irritation develops, seek medical attention.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

Seek medical attention.

**If swallowed:**

Rinse mouth and then drink plenty of water.

Do not induce vomiting. Seek medical attention.

**Note to physician**

Treatment: Symptomatic treatment (decontamination, vital functions).

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### 5. Fire-fighting measures

Autoignition: 440 °C (DIN 51794)

**Suitable extinguishing media:**

water spray, foam, carbon dioxide, dry extinguishing media

**Hazards during fire-fighting:**

carbon dioxide, hydrogen cyanide, nitrous gases

**Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:**

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

**NFPA Hazard codes:**

Health : 1 Fire: 1 Reactivity: 0 Special:

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### 6. Accidental release measures

**Personal precautions:**

Avoid dust formation.

**Environmental precautions:**

Do not discharge into drains/surface waters/groundwater.

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### **Cleanup:**

Dispose of absorbed material in accordance with regulations.

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up.

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## 7. Handling and storage

### Handling

#### **General advice:**

Handle in accordance with good industrial hygiene and safety practice.

#### **Protection against fire and explosion:**

Avoid dust formation. Take precautionary measures against static discharges. The product is capable of dust explosion.

### Storage

#### **General advice:**

Keep container tightly closed and dry; store in a cool place.

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## 8. Exposure controls and personal protection

### **Advice on system design:**

Provide local exhaust ventilation to control dust.

### Personal protective equipment

#### **Respiratory protection:**

Breathing protection if breathable aerosols/dust are formed. Wear a NIOSH-certified (or equivalent) particulate respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

#### **Hand protection:**

Chemical resistant protective gloves, Consult with glove manufacturer for testing data.

#### **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.

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## 9. Physical and chemical properties

Form:	powder
Odour:	faint specific odour
Colour:	white
melting point (decomposition):	
Bulk density:	120 kg/m <sup>3</sup>
Solubility in water:	

The substance / product decomposes therefore not determined.

insoluble

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### 10. Stability and reactivity

**Hazardous reactions:**

Dust explosion hazard.

**Decomposition products:**

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

**Thermal decomposition:**

> 145 °C

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### 11. Toxicological information

**Acute toxicity**

**Oral:**

LD50/rat: > 2,000 mg/kg (BASF-Test)

**Inhalation:**

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

**Skin irritation:**

rabbit: non-irritant (Draize test)

**Eye irritation :**

rabbit: non-irritant (Draize test)

**Chronic toxicity**

**Genetic toxicity:**

No mutagenic effect was found in various tests with microorganisms and mammalian cell culture. The substance was not mutagenic in studies with mammals.

**Carcinogenicity:**

In long-term animal studies in which the substance was given in high doses by feed, a carcinogenic effect was not observed.

**Developmental toxicity/teratogenicity:**

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

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### 12. Ecological information

**Environmental fate and transport**

**Biodegradation:**

Test method:	OECD Guideline 302 B (aerobic), activated sludge, industrial
Method of analysis:	DOC reduction
Degree of elimination:	< 10 % (15 d)
Evaluation:	Poorly eliminated from water. Poorly eliminated from water.

**Bioaccumulation:**

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

### Environmental toxicity

#### **Acute and prolonged toxicity to fish:**

DIN 38412 Part 15 static

golden orfe/LC50 (96 h): > 10,000 mg/l

#### **Toxicity to microorganisms:**

OECD Guideline 209 aerobic

activated sludge, industrial/EC20 (0.5 h): > 1,995 mg/l

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## 13. Disposal considerations

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

Do not discharge into waterways or sewer systems without proper authorization.

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

### **Container disposal:**

All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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## 14. Transport information

### **Land transport**

*USDOT*

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

#### **Registration status:**

TSCA, US

released / exempt

#### **OSHA hazard category:**

Chronic target organ effects reported

#### CERCLA RQ

1,000 LBS

#### CAS Number

75-07-0

#### Chemical name

acetaldehyde

**SARA hazard categories (EPCRA 311/312):** Chronic

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### State regulations

#### State RTK

<u>CAS Number</u>	<u>Chemical name</u>	<u>State RTK</u>
616-45-5	2-Pyrrolidone	MA, PA

#### CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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## 16. Other information

### HMIS III rating

Health: 1

Flammability: 1

Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

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### Local contact information

prod\_reg@basf.com

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