

Safety data sheet

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BASF Safety data sheet
Date / Revised: 30.08.2025
Product: **Kaurit® Powder 287**

Version: 8.0

(30034918/SDS_GEN_SG/EN)

Date of print: 21.10.2025

1. Substance/preparation and manufacturer/supplier identification

Product name:
Kaurit® Powder 287

Use: Chemical

Recommended use: Chemical, for industrial and professional users

Manufacturer/supplier:
BASF South East Asia Pte Ltd.
128 Beach Road #18-01
Guoco Midtown, 189773, Singapore
Telephone: +65 8322 4420
Telefax number: +65 6 334-0330
E-mail address: benny.zou@basf.com

Emergency information:
Singapore Emergency Toll-Free Number:
Telephone: 1800-723-1361
International emergency number:
Telephone: +49 180 2273-112

2. Hazard identification

Classification of the substance and mixture:
Skin irritation: Cat.3
Skin sensitization: Cat.1
Carcinogenicity: Cat.1B

Label elements and precautionary statement:

Pictogram:

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Signal Word:

| Danger

Hazard Statement:

H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H350	May cause cancer.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P201	Obtain special instructions before use.
P261	Avoid breathing dust or fume.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

P308 + P313	IF exposed or concerned: Get medical attention.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P332 + P313	If skin irritation occurs: Get medical attention.

Precautionary Statements (Storage):

| P405 Store locked up.

Precautionary Statements (Disposal):

| P501 Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:

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

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

Condensate based on:
 formaldehyde, urea

Hazardous ingredients

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formaldehyde

Content (W/W): $\geq 0.3\%$ - $< 1\%$
CAS Number: 50-00-0

Flam. Liq.: Cat. 4
Acute Tox.: Cat. 2 (Inhalation - vapour)
Acute Tox.: Cat. 3 (oral)
Acute Tox.: Cat. 3 (dermal)
Skin Corr.: Cat. 1B
Eye Dam.: Cat. 1
Skin Sens.: Cat. 1A
Carc.: Cat. 1B
Aquatic Acute: Cat. 2

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention.

On contact with eyes:

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

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far
Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, foam, carbon dioxide, dry powder

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

formaldehyde, harmful vapours

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Dust explosion hazard.

Further information:

Fire debris must be disposed of in accordance with official regulations. In case of combustion evolution of toxic gases/vapours possible. Do not allow to enter drains or waterways. Forms slippery surfaces with water.

6. Accidental Release Measures

Personal precautions:

Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Information regarding personal protective measures, see section 8.

Environmental precautions:

Do not allow to enter soil, waterways or waste water channels. Prevent entry into drains and surface waters. Ensure compliance with local regulations before discharging into effluent treatment plants.

Methods for cleaning up or taking up:

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up.

7. Handling and Storage

Handling

Handle in accordance with good industrial hygiene and safety practice. Inform workers about possible hazards caused by the release of formaldehyde during processing.

Protection against fire and explosion:

Avoid dust formation. The product is capable of dust explosion. Sources of ignition should be kept well clear. Take precautionary measures against static discharges.

Storage

Suitable materials for containers: Low density polyethylene (LDPE), Paper/Fibreboard, High density polyethylene (HDPE), Aluminium

Further information on storage conditions: Keep in a cool place. Keep container dry.

8. Exposure controls and personal protection

Components with occupational exposure limits

formaldehyde, 50-00-0;

STEL value 0.3 ppm (ACGIHTLV)

TWA value 0.1 ppm (ACGIHTLV)

STEL value 0.37 mg/m³ ; 0.3 ppm (OEL (SG))

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. (Particle filter EN 143 P2 or FFP2)

Hand protection:

Chemical resistant protective gloves

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

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:

Do not breathe dust. Do not breathe vapour/spray. No eating, drinking, smoking or tobacco use at the place of work. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Form:	powder	
Colour:	white	
Odour:	almost odourless	
Odour threshold:	No data available.	
pH value:	approx. 7 (660 g/l, 20 °C)	(DIN ISO 976)
Melting point:	approx. 120 °C approx. 120 °C	
Boiling point:	not applicable	
Flash point:	not applicable, the product is a solid	
Evaporation rate:	The product is a non-volatile solid.	
Flammability (solid/gas):	not readily ignited	(other)
Lower explosion limit:	125 g/m ³ (20 - 24 °C, 1013 hPa) The lower explosion limit of dust has been determined.	(DIN EN 14034-3)

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Upper explosion limit:	For solids not relevant for classification and labelling.	
Ignition temperature:	approx. 460 °C	(VDI 2263, sheet 1, 2.6 (May 1990))
Thermal decomposition:	> 250 °C No decomposition if correctly stored and handled.	
Self ignition:	Temperature: > 350 °C	(Method: VDI 2263, sheet 1, 1.4.1 (May 1990))
Self heating ability:	It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2.	
SADT:	> 75 °C Heat accumulation / Dewar 500 ml (SADT, UN-Test H.4, 28.4.4)	
Minimum ignition energy:	650 mJ Grain size distribution: 3 µm 1.3 J	(DIN EN 13821) (DIN EN 13821)
Explosion hazard:	Grain size distribution: 100 µm Product is not explosive, however a dust explosion could result from an air / dust mixture.	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	not applicable	
Density:	No information is available for the absolute density. Instead the bulk density was determined as a more relevant value.	
Relative density:	not determined	
Bulk density:	approx. 600 kg/m ³	(DIN ISO 697)
Relative vapour density (air):	The product is a non-volatile solid.	
Solubility in water:	The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. > 2 g/l	
Partitioning coefficient n-octanol/water (log Pow):	< 1.0 The statements are based on the properties of the individual components.	
Viscosity, dynamic:	not applicable, the product is a solid	
Viscosity, kinematic:	not applicable, the product is a solid	

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Other Information:
none

Particle characteristics

Particle size distribution:	33.53 - 77.79 µm	(D50, Volumetric Distribution, measured)
	fine particles -	
Specific Surface Area:	No data available.	
Particle Shape:	No data available.	
Dustiness:	No data available.	

10. Stability and Reactivity

Conditions to avoid:
> 30 °C
Avoid heat. Avoid humidity. Avoid dust formation.

Thermal decomposition:	> 250 °C No decomposition if correctly stored and handled.
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Substances to avoid:
Organic Peroxides, strong bases, strong acids, acid anhydrides

Hazardous reactions:
During processing with acids, water and / or heat formaldehyde will be released, which may act as a sensitizer.

| formaldehyde

Chemical stability:
The product is chemically stable.

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

11. Toxicological Information

Routes of exposure

Acute oral toxicity

Experimental/calculated data:
LD50rat (oral): > 10,000 mg/kg

Acute inhalation toxicity

rat (by inhalation): 8 h (IRT)

No mortality within the stated exposition time as shown in animal studies.

Acute dermal toxicity

(dermal): No data available.

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.

Symptoms

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
(Further) symptoms and / or effects are not known so far

Irritation

Assessment of irritating effects:

Skin contact causes slight irritation. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (BASF-Test)

Serious eye damage/irritation rabbit: non-irritant (BASF-Test)

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Experimental/calculated data:

No data available.

Information on: formaldehyde

Assessment of sensitization:

Caused skin sensitization in animal studies. Caused sensitization in humans.

Germ cell mutagenicity

Assessment of mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:

The substance caused cancer in animal studies.

Experimental/calculated data:

No data available.

Information on: formaldehyde

Assessment of carcinogenicity:

After lifelong inhalation exposure to concentrations that were severely damaging to the nasal epithelium, nasal tumors were induced in rats; in other species these findings were not found or were

considerably less pronounced. The International Agency for Research on Cancer (IARC) has classified formaldehyde as a Group 1 (known) human carcinogen based on epidemiological evidence linking formaldehyde exposure to occurrence of nasopharyngeal cancer and leukemia. No adverse health effects are anticipated if recommended personal protective equipment and industrial hygiene practices are used.

Reproductive toxicity

Assessment of reproduction toxicity:
Not classified, due to lack of data.

Experimental/calculated data:
No data available.

Developmental toxicity

Assessment of teratogenicity:
Not classified, due to lack of data.

Specific target organ toxicity (single exposure)

The available information is not sufficient for the evaluation of specific target organ toxicity.

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.

Experimental/calculated data:
No data available.

Information on: formaldehyde
Assessment of repeated dose toxicity:
After repeated exposure the prominent effect is local irritation.

Aspiration hazard

not applicable

Other relevant toxicity information

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

12. Ecological Information

Ecotoxicity

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) > 500 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)
Nominal concentration.

Aquatic invertebrates:

No data available.

Aquatic plants:

No data available.

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.

Mobility**Assessment transport between environmental compartments:**

The substance will not evaporate into the atmosphere from the water surface.

Persistence and degradability**Elimination information:**

No data available.

Bioaccumulation potential**Assessment bioaccumulation potential:**

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

Additional information**Other ecotoxicological advice:**

Do not release untreated into natural waters. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

13. Disposal Considerations

Incinerate in suitable incineration plant, observing local authority regulations.

14. Transport Information

Domestic transport:

	Not classified as a dangerous good under transport regulations
UN number or ID 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

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
	Marine pollutant: no
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
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

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

15. Regulatory Information

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Other regulations

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

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

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.