

Safety data sheet

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BASF Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 03.07.2025

Version: 4.2

Product: **Kaurit® Powder 234**

(ID no. 30034912/SDS_GEN_00/EN)

Date of print 12.10.2025

1. Identification

Product identifier

Kaurit® Powder 234

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

Relevant identified uses: Chemical

Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Division Monomers

Telephone: +49 621 60 42737

E-mail address: pss.monomers@basf.com

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

Skin Sens. 1

| Skin Irrit. 2

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

Label elements

Globally Harmonized System (GHS)

Pictogram:



Signal Word:

Warning

Hazard Statement:

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

Precautionary Statements (Prevention):

P280

Wear protective gloves.

| P261

Avoid breathing dust or fume.

P272

Contaminated work clothing should not be allowed out of the workplace.

P264

Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

| P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

| P333 + P313

If skin irritation or rash occurs: Get medical attention.

P332 + P313

If skin irritation occurs: Get medical attention.

| P362 + P364

Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501

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

Labeling of special preparations (GHS):

Product contains the following components and may cause an allergic skin reaction: Formaldehyde

Other hazards

According to UN GHS criteria

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. The product is under certain conditions capable of dust explosion.

3. Composition/Information on Ingredients

Substances

Not applicable

Mixtures

Chemical nature

Condensate based on: Urea, Formaldehyde

Hazardous ingredients (GHS)

According to UN GHS criteria

No particular hazards known.

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

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust 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.

Most important symptoms and effects, both acute and delayed

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.

Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

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

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

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

Special hazards arising from the substance or mixture

Formaldehyde, harmful vapours
Dust explosion hazard.

Advice for fire-fighters

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, protective equipment and emergency procedures**

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 and material for containment and cleaning up

For small amounts: Sweep/shovel up.
For large amounts: Sweep/shovel up.

7. Handling and Storage**Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

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.

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.

8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

No occupational exposure limits known.

Exposure controls

Personal protective equipment

Respiratory protection:

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

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

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.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	solid
Form:	powder
Colour:	white
Odour:	almost odourless
Odour threshold:	No data available.
Melting point:	approx. 120 °C
Boiling point:	not applicable
Flammability:	not applicable
Flash point:	not applicable, the product is a solid
Auto-ignition temperature:	430 °C

(VDI 2263, sheet 1, 2.6 (May 1990))

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Thermal decomposition:	Carbon monoxide, Carbon dioxide Prolonged thermal loading can result in products of degradation being given off.
SADT:	> 75 °C Heat accumulation / Dewar 500 ml (SADT, UN-Test H.4, 28.4.4)
pH value:	approx. 8,8 (660 g/l, 20 °C) (DIN ISO 976)
Viscosity, kinematic:	No data available.
Viscosity, dynamic:	No data available.
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 Kow):	< 1,0 The statements are based on the properties of the individual components.
Vapour pressure:	not applicable
Relative density:	not determined
Density:	No information is available for the absolute density. Instead the bulk density was determined as a more relevant value.
<u>Particle characteristics</u>	
Particle size distribution:	33,53 - 77,79 µm fine particles - (D50, Volumetric Distribution, measured)

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: Product is not explosive, however a dust explosion could result from an air / dust mixture.

Oxidizing properties

Fire promoting properties: not fire-propagating

Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2.

Other safety characteristics

Bulk density:	approx. 600 kg/m ³	(ISO 697)
Other Information:	none	
Evaporation rate:	The product is a non-volatile solid.	

10. Stability and Reactivity

Reactivity

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

Chemical stability

The product is chemically stable.

Possibility of hazardous reactions

Risk of spontaneous polymerization in the presence of strong acids, bases and peroxides. During processing with acids, water and / or heat formaldehyde will be released, which may act as a sensitizer.

Conditions to avoid

> 30 °C

Avoid heat. Avoid humidity. Avoid dust formation.

Incompatible materials

Substances to avoid:

Organic Peroxides, strong bases, strong acids, acid anhydrides

Hazardous decomposition products

:

Formaldehyde

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Experimental/calculated data:

LD50 rat (oral): > 10.000 mg/kg

rat (by inhalation): 8 h (IRT)

Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Irritation

Assessment of irritating effects:

Irritating to skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant

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

Respiratory/Skin sensitization

Assessment of sensitization:

After continuous contact with the skin, sensitization cannot be excluded.

Experimental/calculated data:

Guinea pig maximization test guinea pig: skin sensitizing

Germ cell mutagenicity

Assessment of mutagenicity:

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

Carcinogenicity

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:

No reproductive toxic effects reported.

Developmental toxicity

Assessment of teratogenicity:

Not a teratogen.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

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

Information on: Formaldehyde

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation.

Information on: Methanol

Assessment of repeated dose toxicity:

The substance may cause blindness after repeated ingestion. The substance may cause blindness after repeated inhalation.

Aspiration hazard

No aspiration hazard expected.

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) > 680 - < 1.000 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

Nominal concentration.

Microorganisms/Effect on activated sludge:

EC20 (30 min) > 1.000 mg/l, activated sludge, industrial (DIN EN ISO 8192-OECD 209-88/302/EEC, P. C, aerobic)

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The product has not been tested.

Elimination information:

No data available.

Bioaccumulative potential

Assessment 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:

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

Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

Additional information

Other ecotoxicological advice:

Do not release untreated into natural waters. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

13. Disposal Considerations

Waste treatment methods

Incinerate in suitable incineration plant, observing local authority regulations.

14. Transport Information

Land transport

ADR

	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

RID

	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

Inland waterway transport

ADN

	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

Transport in inland waterway vessel

Not evaluated

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
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
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

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

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

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

Skin Sens.	Skin sensitization
Skin Irrit.	Skin irritation

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.