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Safety data sheet

BASF Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)
Date / Revised: 04.04.2024 Version: 7.1
Product: **Kaurit® Glue 270**

(ID no. 30034914/SDS_GEN_00/EN)
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1. Identification

Product identifier

Kaurit® Glue 270

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

Relevant identified uses: Chemical
Recommended use: Chemical, for industrial and professional users

Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY
Division Monomers

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2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

Acute Tox. 5 (oral)
Acute Tox. 5 (dermal)
Skin Sens. 1
Muta. 2
Carc. 1B

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:
Danger

Hazard Statement:

H313	May be harmful in contact with skin.
H303	May be harmful if swallowed.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H341	Suspected of causing genetic defects.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P201	Obtain special instructions before use.
P260	Do not breathe mist or vapour.
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):

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P311	IF exposed or concerned: Call a POISON CENTER or physician.
P303	IF ON SKIN (or hair):
P361	Take off immediately all contaminated clothing.
P353	Rinse skin with water [or shower].
P363	Wash contaminated clothing before reuse.

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

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

Polymer based on: Urea, Formaldehyde

in water

Hazardous ingredients (GHS)
According to UN GHS criteria

Formaldehyde

Content (W/W): >= 1 % - < 3 %	Flam. Liq. 4
CAS Number: 50-00-0	Acute Tox. 2 (Inhalation - vapour)
EC-Number: 200-001-8	Acute Tox. 3 (oral)
INDEX-Number: 605-001-00-5	Acute Tox. 3 (dermal)
	Skin Corr. 1B
	Eye Dam. 1
	Skin Sens. 1A
	Carc. 1B
	Aquatic Acute 2
	H227, H330, H317, H350, H314, H301 + H311, H401
	Specific concentration limit: Eye Dam./Irrit. 2: 5 - < 25 % STOT SE 3, irr. to respiratory syst.: >= 5 % Skin Sens. 1: >= 0,2 % Skin Corr./Irrit. 2: 5 - < 25 % Skin Corr./Irrit. 1B: >= 25 %

Methanol

Content (W/W): >= 0,3 % - < 1 % CAS Number: 67-56-1 EC-Number: 200-659-6 INDEX-Number: 603-001-00-X	Flam. Liq. 2 Acute Tox. 3 (Inhalation - vapour) Acute Tox. 3 (oral) Acute Tox. 3 (dermal) STOT SE (Central nervous system, Optic nerve) 1 H225, H301 + H311 + H331, H370 Specific concentration limit: STOT SE 2: 3 - < 10 % STOT SE 1: >= 10 %

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

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., (Further) symptoms and / or effects are not known so far

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, Methanol, Carbon monoxide, Carbon dioxide, nitrogen oxides
The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Further information:
Fire debris must be disposed of in accordance with offical 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

Forms slippery surfaces with water.

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 large amounts: Sweep/shovel up.
For residues: Pick up with suitable absorbent material.

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:
No special precautions necessary.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Carbon steel (Iron), Stainless steel 1.4401, Stainless steel 1.4301 (V2), glass
Unsuitable materials for containers: Aluminium, Paper/Fibreboard

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

50-00-0: Formaldehyde
57-13-6: Urea
67-56-1: Methanol

Exposure controls

Personal protective equipment

Respiratory protection:
Breathing protection if gases/vapours are formed. Gas filter for gases/vapours of inorganic compounds (e.g. EN 14387 Type B)

Hand protection:
Chemical resistant protective gloves (EN ISO 374-1)
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 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

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. Do not inhale vapours or dust.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	liquid
Form:	liquid
Colour:	colourless
Odour:	faint odour

Odour threshold:		
	No data available.	
Melting point:	0 °C (approx. 1.013 hPa)	
boiling temperature:	approx. 100 °C	
Flash point:		
	No flash point - Measurement made up to the boiling point.	
Auto-ignition temperature:	440 °C	(DIN 51794)
Thermal decomposition:	No decomposition if correctly stored and handled.	
pH value:	7,5 - 9 (20 °C)	(DIN ISO 976)
Viscosity, kinematic:		
	No data available.	
Viscosity, dynamic:	5.000 - 8.000 mPa.s (20 °C)	(DIN EN ISO 3219, Annex B)
Solubility in water:	miscible	
Partitioning coefficient n-octanol/water (log Kow):	< 1,0	
	The statements are based on the properties of the individual components.	
Vapour pressure:	approx. 23 mbar (20 °C)	
Relative density:		
	No data available.	
Density:	1,31 - 1,33 g/cm3 (20 °C)	(ISO 2811-3)
Relative vapour density (air):		
	No data available.	
Particle characteristics		
Particle size distribution:	The substance / product is marketed or used in a non solid or granular form. -	

9.2. Other information

Information with regard to physical hazard classes

Explosives
Explosion hazard: not explosive
Oxidizing properties
Fire promoting properties: not fire-propagating

Other safety characteristics

Bulk density:	
	No data available.
Other Information:	none
Evaporation rate:	
	Value can be approximated from Henry's Law Constant or vapor pressure.

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

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 freezing. See SDS section 7 - Handling and storage.

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. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard.

Experimental/calculated data:
LD50 rat (oral): > 5.000 mg/kg

rat (by inhalation): 7 h (IRT)
No mortality within the stated exposition time as shown in animal studies.

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

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

Respiratory/Skin sensitization

Assessment of sensitization:
May cause sensitization by skin contact. May produce an allergic reaction. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Formaldehyde
Assessment of sensitization:
Caused skin sensitization in animal studies. Caused sensitization in humans.

Germ cell mutagenicity

Assessment of mutagenicity:
Mutagenic properties can not be excluded on the basis of experimental data. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Formaldehyde
Assessment of mutagenicity:
Reliable studies did not give evidence for systemic genotoxicity in experimental animals or in humans. Although positive in various in vitro studies, the substance does not induce local mutagenic effects in the absence of chronic irritation based on today's knowledge.

Carcinogenicity

Assessment of carcinogenicity:
The substance caused cancer in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

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.

Toxicity to fish:
LC50 (48 h) > 500 mg/l, Leuciscus idus (static)
Nominal concentration.

Microorganisms/Effect on activated sludge:
activated sludge, industrial (DIN EN ISO 8192-OECD 209-88/302/EEC,P. C, aerobic)
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Persistence and degradability

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.

Information on: Formaldehyde
Assessment transport between environmental compartments:
Volatility: The substance will not evaporate into the atmosphere from the water surface.
Adsorption in soil: Adsorption to solid soil phase is not expected.

Information on: Methanol
Assessment transport between environmental compartments:
Volatility: The substance will not evaporate into the atmosphere from the water surface.
Adsorption in soil: Adsorption to solid soil phase is not expected.

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

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	None known

user

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:

Acute Tox.	Acute toxicity
Skin Sens.	Skin sensitization
Muta.	Germ cell mutagenicity
Carc.	Carcinogenicity
Flam. Liq.	Flammable liquids
Skin Corr.	Skin corrosion
Eye Dam.	Serious eye damage
Aquatic Acute	Hazardous to the aquatic environment - acute
STOT SE	Specific target organ toxicity — single exposure
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Corr./Irrit.	Skin corrosion/irritation
H227	Combustible liquid.
H330	Fatal if inhaled.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H314	Causes severe skin burns and eye damage.
H301 + H311	Toxic if swallowed or in contact with skin.
H401	Toxic to aquatic life.
H225	Highly flammable liquid and vapour.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to organs (Central nervous system, Optic nerve).

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.