

# Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 04.04.2024

Version: 1.2

Date / Previous version: 15.08.2023

Previous version: 1.1

Product: **Kaurit® Impregnating System 820**

(ID no. 30034949/SDS\_GEN\_DE/EN)

Date of print 16.10.2025

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

## Kaurit® Impregnating System 820

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

Relevant identified uses: Chemical

Recommended use: Chemical, for industrial and professional users

### 1.3. 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

### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to Regulation (EC) No 1272/2008 [CLP]

No need for classification according to GHS criteria for this product.

### 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

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

Labeling of special preparations (GHS):

EUH208: May produce an allergic reaction. Contains: Formaldehyde

### 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

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

The product does not contain a substance above legal limits 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.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical nature

| Polymer based on: acrylic resin, 1,3,5-triazine-2,4,6-triamine; melamine, Formaldehyde, Urea modified

Regulatory relevant ingredients

| No particular hazards known.

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## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid.

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.

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

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

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

### 4.3. Indication of any immediate medical attention and special treatment needed

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media:

water spray, foam, carbon dioxide, dry powder

### 5.2. Special hazards arising from the substance or mixture

Endangering substances: carbon oxides

Advice: The substances/groups of substances mentioned can be released in case of fire.

### 5.3. 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.

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## SECTION 6: Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No special precautions necessary.

### 6.2. Environmental precautions

Do not discharge into waterways or sewer systems without proper authorization. Dispose of in compliance with the environmental protection requirements.

### 6.3. Methods and material for containment and cleaning up

For large amounts: Sweep/shovel up.

For residues: Pick up with suitable absorbent material.

### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## SECTION 7: Handling and Storage

### 7.1. 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.

### 7.2. Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances.

Suitable materials for containers: Stainless steel 1.4401, Stainless steel 1.4301 (V2), Aluminium, Polyester resin, glass reinforced (Palatal A410), High density polyethylene (HDPE), Low density polyethylene (LDPE), glass

Unsuitable materials for containers: Paper/Fibreboard

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

Storage class according to TRGS 510 (originally VCI, Germany): (10) Combustible liquids

### 7.3. 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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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

The surveillance of the workplace by exposure measurements may be necessary, in order to prove the efficiency of safety measures, for example ventilation or the need of respiratory protection. Since this requires a specific competency, only accredited laboratories should be contracted. Regarding suitable methods to assess inhalation exposure, the European Standards EN 482, 689 and 14042 are to be considered. In addition, the TRGS 402 has to be observed in Germany.

#### | 50-00-0: Formaldehyde

STEL value 0,74 mg/m<sup>3</sup> (Directive 2004/37/EC)

TWA value 0,62 mg/m<sup>3</sup> ; 0,5 ppm (Directive 2004/37/EC)

TWA value 0,37 mg/m<sup>3</sup> ; 0,3 ppm (Directive 2004/37/EC)

STEL value 0,6 ppm (Directive 2004/37/EC)

OEL 0,37 mg/m<sup>3</sup> ; 0,3 ppm (TRGS 900 (DE))

Ceiling limit value/factor: 2

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

Short Term Exposure Classification: (TRGS 900 (DE))

Category I: Substances for which the localized effect has an assigned exposure limit or for substances with a sensitizing effect in respiratory passages

HAZ\_DES (TRGS 900 (DE))

Skin sensitization

HAZ\_DES X (TRGS 900 (DE))

Carcinogenic substance(s) of category 1A/1B. For activities with this hazardous substance, § 10 of the Hazardous Substances Act (GefStoffV) must also be observed.

#### Components with PNEC

##### 50-00-0: Formaldehyde

freshwater: 0,132 mg/l

marine water: 0,132 mg/l

intermittent release: 0,49 mg/l

sediment (freshwater): 0,686 mg/l

sediment (marine water): 0,686 mg/l

soil: 0,059 mg/l

STP: 0,19 mg/l

air:

No PNEC value available.

#### Components with DNEL

##### 50-00-0: Formaldehyde

worker: Short-term exposure - systemic and local effects, Inhalation: 0,75 mg/m<sup>3</sup>, 0,6 ppm

worker: Long-term exposure - systemic and local effects, Inhalation: 0,375 mg/m<sup>3</sup>, 0,3 ppm

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worker: Long-term exposure- systemic effects, dermal: 240 mg/kg  
 consumer: Long-term exposure- systemic effects, oral: 4,1 mg/kg  
 consumer: Long-term exposure- systemic effects, dermal: 102 mg/kg  
 consumer: Long-term exposure - local effects, dermal: 0,012 mg/cm<sup>2</sup>  
 consumer: Long-term exposure - systemic and local effects, Inhalation: 0,1 mg/m<sup>3</sup>

## 8.2. Exposure controls

### Personal protective equipment

Respiratory protection:

Breathing protection if gases/vapours are formed. (Gas filter EN 14387 A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

No body protection required if used for intended purpose and satisfying generally accepted industrial hygiene rules.

### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

State of matter:	liquid	
Form:	liquid	
Colour:	white	
Odour:	almost odourless	
solidification temperature:	approx. -10 °C	
boiling temperature:	approx. 95 °C	
Flash point:	100 °C	(ISO 2592)
	No flash point - Measurement made up to the indicated temperature, pilot light extinguishes.	
Auto-ignition temperature:	approx. 510 °C	(DIN 51794)
Thermal decomposition:	No decomposition if correctly stored and handled.	
pH value:	approx. 8	(DIN ISO 976)
	(20 °C)	
Viscosity, dynamic:	10 - 30 mPa.s	(DIN EN ISO 3219, Annex B)
	(20 °C)	
Solubility in water:	miscible	
Partitioning coefficient n-octanol/water (log K <sub>ow</sub> ):	not determined	

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Vapour pressure: approx. 23 mbar  
(20 °C)

Density: approx. 1,13 g/cm<sup>3</sup> (DIN 53217-5)  
(20 °C)

#### 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

#### 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.

#### Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases:  
Forms no flammable gases in the presence of water.

### **Other safety characteristics**

Other Information: none

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## **SECTION 10: Stability and Reactivity**

### **10.1. Reactivity**

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

Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.
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### **10.2. Chemical stability**

The product is chemically stable.

Peroxides: Substance contains no organic peroxides.

### **10.3. Possibility of hazardous reactions**

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

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#### 10.4. Conditions to avoid

> 30 °C

Avoid heat. Avoid humidity. Avoid dust formation.

#### 10.5. Incompatible materials

Substances to avoid:

Organic Peroxides, strong bases, strong acids, acid anhydrides

#### 10.6. Hazardous decomposition products

Possible thermal decomposition products:

Formaldehyde

### SECTION 11: Toxicological Information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### 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. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): > 2.000 mg/kg

rat (by inhalation): 8 h

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:

Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (BASF-Test)

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.



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Experimental/calculated data:

Guinea pig maximization test : Non-sensitizing.

This compound containing < 1% formaldehyde has no sensitizing effect (literature data).

#### Germ cell mutagenicity

No data available.

#### 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.*

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#### 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)

No data available.

#### 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.*

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#### Aspiration hazard

No aspiration hazard expected.

#### Interactive effects

No data available.

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## 11.2. Information on other hazards

### Endocrine disrupting properties

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.

### Other information

Other relevant toxicity information

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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## SECTION 12: Ecological Information

### 12.1. 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. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Toxicity to fish:

LC50 (96 h) > 500 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

Nominal concentration.

LC50 (96 h) > 6.810 mg/l, *Leuciscus idus* (other, static)

LC50 (96 h) > 2.200 - < 4.600 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

Nominal concentration.

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

The statement of the toxic effect relates to the analytically determined concentration.

Aquatic plants:

EC50 (72 h) 88,2 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration.

### 12.2. Persistence and degradability

Elimination information:

No data available.

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### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product will not be readily bioavailable due to its consistency and insolubility in water.

The product has not been tested. The statement has been derived from the properties of the individual components.

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### 12.6. Endocrine disrupting properties

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.

### 12.7. 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. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Incinerate in suitable incineration plant, observing local authority regulations.  
No disposal via sewage or waste water systems.

Waste key:

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

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## SECTION 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

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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

#### **14.1. UN number or ID number**

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### **14.7. Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

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## SECTION 15: Regulatory Information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 69

Hazardous Incident Ordinance (Germany):

Listed in above regulation: no

| Classification applies for standard conditions of temperature and pressure.

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

Listed in above regulation: no

| Classification applies for standard conditions of temperature and pressure.

Classification according to 'TA-Luft' (Germany):

Formaldehyde

Water hazard class (§8/§10 AwSV (Self-classification of the mixture according to calculation method)): (1) Weakly water polluting.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

### 15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

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## SECTION 16: Other Information

#### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time

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Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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.