

## Safety data sheet

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

Date / Revised: 31.07.2025 Version: 6.0

Product: Kauramin® Powder 773

(ID no. 30034945/SDS\_GEN\_00/EN)

Date of print 20.10.2025

### 1. Identification

**Product identifier** 

### Kauramin® Powder 773

### 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

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

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#### Classification of the substance or mixture

#### According to UN GHS criteria

Skin Irrit. 3 Skin Sens. 1 Carc. 1B Repr. 2 (fertility)

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:

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility.

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.

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#### 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.

### 3. Composition/Information on Ingredients

#### **Substances**

Not applicable

### **Mixtures**

### Chemical nature

Condensate based on: Melamine, Formaldehyde

modified

<u>Hazardous ingredients (GHS)</u> According to UN GHS criteria

Melamine

Content (W/W): >= 5 % - < 10 % Acute Tox. 5 (oral)

CAS Number: 108-78-1 Carc. 2

EC-Number: 203-615-4 Repr. 2 (fertility)

STOT RE (Urinary tract.) 2 H303, H351, H361, H373

caprolactam

Content (W/W): >= 1 % - < 3 % Acute Tox. 4 (Inhalation - dust)

CAS Number: 105-60-2 Acute Tox. 4 (oral) EC-Number: 203-313-2 Skin Irrit. 2

INDEX-Number: 613-069-00-2 Eye Irrit. 2A

STOT SE 3 (irr. to respiratory syst.) H319, H315, H335, H302 + H332

Butane-1,4-diol

Content (W/W): >= 1 % - < 3 % Acute Tox. 4 (oral)

CAS Number: 110-63-4 STOT SE 3 (drowsiness and dizziness)

EC-Number: 203-786-5 H302, H336

2-Diethylaminoethanol

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Content (W/W): >= 0.3 % - < 1 %

CAS Number: 100-37-8

EC-Number: 202-845-2

INDEX-Number: 603-048-00-6

Flam. Liq. 3

Acute Tox. 3 (Inhalation - vapour)

Acute Tox. 4 (oral)

Acute Tox. 3 (dermal)

Skin Corr. 1B Eye Dam. 1

STOT SE 3 (irr. to respiratory syst.)

Aquatic Acute 3

H226, H302, H335, H314, H311 + H331, H402

Specific concentration limit:

STOT SE 3, irr. to respiratory syst.: >= 5 %

### Formaldehyde

Content (W/W): >= 0,2 % - < 0,3 % 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,

Specific concentration limit:

Eye Irrit. 2: 5 - < 25 %

STOT SE 3, irr. to respiratory syst.: >= 5 %

Skin Sens. 1: >= 0,2 % Skin Irrit. 2: 5 - < 25 % Skin Corr. 1B: >= 25 %

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**

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.

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#### 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: 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

### 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

Unsuitable extinguishing media for safety reasons: water jet

### 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 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

### Personal precautions, protective equipment and emergency procedures

Take appropriate protective measures. Information regarding personal protective measures, see section 8. Use personal protective clothing.

#### **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.

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### 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

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), High density polyethylene (HDPE), Aluminium, glass, Stainless steel 1.4306 (V2A), Stainless steel 1.4402 (V4A) 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

57-50-1: Sucrose

100-37-8: 2-Diethylaminoethanol

105-60-2: caprolactam 108-78-1: Melamine 110-63-4: Butane-1,4-diol

#### **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)

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.

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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

### 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. 100 °C

Flammability:

not applicable not determined

Lower explosion limit:

For solids not relevant for classification and labelling.

Upper explosion limit:

For solids not relevant for classification and labelling.

Flash point:

not applicable, the product is a solid

Auto-ignition temperature: > 500 °C (VDI 22

(VDI 2263, sheet 1, 2.6 (May

1990))

Thermal decomposition: > 250 °C (DTA)

No decomposition if correctly stored and handled.

pH value: approx. 9 (DIN ISO 976)

(660 g/l, 20 °C)

Viscosity, kinematic:

not applicable, the product is a solid

Viscosity, dynamic:

not applicable, the product is a 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

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Partitioning coefficient n-octanol/water (log Kow): < 3,0

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.

Relative vapour density (air):

The product is a non-volatile solid.

Particle characteristics

Particle size distribution: 33,53 - 77,79 µm

(D50, Volumetric Distribution,

measured)

fine particles -

#### 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. 700 kg/m3 (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 stable if stored and handled as prescribed/indicated.

### 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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#### 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.

Experimental/calculated data: LD50 rat (oral): > 2.000 mg/kg

### Irritation

Assessment of irritating effects:

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

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

### Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Information on: Formaldehyde Assessment of sensitization:

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

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### Germ cell mutagenicity

Assessment of mutagenicity:

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

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### Carcinogenicity

Assessment of carcinogenicity:

The substance caused cancer in animal studies.

Information on: Melamine Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests. Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

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:

Based on the ingredients, there is a suspicion of a toxic effect on reproduction.

Information on: Melamine

Assessment of reproduction toxicity:

The substance may cause damage to the testes after repeated ingestion of high doses, as shown in animal studies. The potential to impair fertility cannot be excluded.

Study scientifically not justified.

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### **Developmental toxicity**

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

Specific target organ toxicity (single exposure)

Assessment of STOT single:

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.

Information on: Formaldehyde

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation.

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Information on: Melamine

Assessment of repeated dose toxicity:

The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in

animal studies.

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### 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

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

Nominal concentration.

Microorganisms/Effect on activated sludge:

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

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

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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 (EU) 2024/590 on substances that deplete the ozone layer.

### **Additional information**

Other ecotoxicological advice:

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. No disposal via sewage or waste water systems.

### 14. Transport Information

#### **Land transport**

ADR

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

RID

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:

Not applicable
Not applicable
Not applicable
Not applicable

Special precautions for

user

Not applicable None known

### **Inland waterway transport**

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ADN

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user:

Transport in inland waterway vessel

Not evaluated

### Sea transport

**IMDG** 

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

UN number or ID number
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

### 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

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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 Irrit.
Skin Sens.
Skin sensitization
Carc.
Carcinogenicity
Repr.
Reproductive toxicity

Acute Tox. Acute toxicity

STOT RE Specific target organ toxicity — repeated exposure

Eye Irrit. Eye irritation

STOT SE Specific target organ toxicity — single exposure

Flam. Liq. Flammable liquids
Skin Corr. Skin corrosion
Eve Dam. Serious eve damage

Aquatic Acute Hazardous to the aquatic environment - acute

H303 May be harmful if swallowed.
 H351 Suspected of causing cancer.
 H361 Suspected of damaging fertility.

H373 May cause damage to organs (Urinary tract.) through prolonged or

repeated exposure.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation. H302 + H332 Harmful if swallowed or if inhaled.

H302 Harmful if swallowed.

H336 May cause drowsiness or dizziness. H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H311 + H331 Toxic in contact with skin or if inhaled. H402 Harmful to aquatic life. H227 Combustible liquid.

H330 Combustible liquid.
Fatal if inhaled.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H301 + H311 Toxic if swallowed or in contact with skin.

H401 Toxic to aquatic life.

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.