

Safety data sheet

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 07.05.2025

Version: 11.0

Date / Previous version: 14.09.2023

Previous version: 10.0

Product: **Kauramin® Powder 700**

(ID no. 30034770/SDS_GEN_GB/EN)

Date of print 13.10.2025

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

1.1. Product identifier

Kauramin® Powder 700

UFI: SK91-WKSS-W00C-C6Q6

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

Contact address:

BASF plc
4th and 5th Floors, 2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

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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 GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Skin Sens. 1	H317 May cause an allergic skin reaction.
Carc. 1B	H350 May cause cancer.
Repr. 2	H361f Suspected of damaging fertility.

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

2.2. Label elements

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:

Danger

Hazard Statement:

H317	May cause an allergic skin reaction.
H350	May cause cancer.
H361f	Suspected of damaging fertility.

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.

Precautionary Statements (Response):

P308 + P313	IF exposed or concerned: Get medical attention.
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Precautionary Statements (Storage):

P405	Store locked up.
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Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Hazard determining component(s) for labelling: Formaldehyde, 1,3,5-triazine-2,4,6-triamine; melamine

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2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

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.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

| Condensate based on: Formaldehyde, 1,3,5-triazine-2,4,6-triamine; melamine, in water

Hazardous ingredients (GHS)

| 1,3,5-triazine-2,4,6-triamine; melamine

| Content (W/W): $\geq 5\%$ - $< 7\%$

| CAS Number: 108-78-1

| EC-Number: 203-615-4

| REACH registration number: 01-2119485947-16

| INDEX-Number: 613-345-00-2

Carc. 2

Repr. 2 (fertility)

STOT RE (Urinary tract.) 2

H351, H361f, H373

Formaldehyde

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Content (W/W): $\geq 0.2\%$ - $< 0.3\%$	Acute Tox. 2 (Inhalation - vapour)
CAS Number: 50-00-0	Acute Tox. 3 (oral)
EC-Number: 200-001-8	Acute Tox. 3 (dermal)
REACH registration number: 01-2119488953-20	Skin Corr. 1B
INDEX-Number: 605-001-00-5	Eye Dam. 1
	Skin Sens. 1
	Muta. 2
	Carc. 1B
	H330, H317, H350, H341, H314, H301 + H311
	<u>Differing classification according to current knowledge and the criteria given in Annex I of Regulation (EC) No. 1272/2008</u>
	Acute Tox. 3 (dermal)
	Acute Tox. 3 (oral)
	Acute Tox. 2 (Inhalation - vapour)
	Skin Corr. 1B
	Skin Sens. 1A
	Muta. 2
	Carc. 1B
	Eye Dam. 1
	<u>Specific concentration limit:</u>
	Skin Sens. 1: $\geq 0.2\%$
	Skin Corr./Irrit. 1B: $\geq 25\%$
	STOT SE 3, irr. to respiratory syst.: $\geq 5\%$
	Skin Corr./Irrit. 2: $5 - < 25\%$
	Eye Dam./Irrit. 2: $5 - < 25\%$

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. 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.

On ingestion:

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| 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: 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

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

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

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:
water spray, foam, dry powder

Unsuitable extinguishing media for safety reasons:
water jet

5.2. Special hazards arising from the substance or mixture

| Endangering substances: Formaldehyde, harmful vapours
Advice: Dust explosion hazard.

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.

SECTION 6: Accidental Release Measures

6.1. 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.

6.2. 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.

6.3. Methods and material for containment and cleaning up

For small amounts: Pick up in dry form.

For large amounts: Pick up in dry form.

6.4. Reference to other sections

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

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.

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.

7.2. 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.

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.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

50-00-0: Formaldehyde

TWA value 2.5 mg/m³ ; 2 ppm (WEL/EH 40 (UK))
 STEL value 0.74 mg/m³ (Directive 2004/37/EC)
 TWA value 0.62 mg/m³ ; 0.5 ppm (Directive 2004/37/EC)
 TWA value 0.37 mg/m³ ; 0.3 ppm (Directive 2004/37/EC)
 STEL value 0.6 ppm (Directive 2004/37/EC)
 STEL value 2.5 mg/m³ ; 2 ppm (WEL/EH 40 (UK))
 Ceiling limit value/factor: 15 min
 STEL value 0.4 ppm (EU SCOEL)
 Ceiling limit value/factor: 15 min
 TWA value 0.2 ppm (EU SCOEL)
 Ceiling limit value/factor: 8HR

Components with PNEC

50-00-0: Formaldehyde

freshwater: 0.132 mg/l
 marine water: 0.132 mg/l

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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.

108-78-1: 1,3,5-triazine-2,4,6-triamine; melamine

freshwater: 0.51 mg/l
marine water: 0.051 mg/l
intermittent release: 2 mg/l
STP: 100 mg/l
sediment (freshwater): 13.06 mg/kg
soil: 2.312 mg/kg
oral (secondary poisoning):
No PNEC oral derived, as accumulation in organisms is not to be expected.
air:
No hazard identified.
sediment (marine water): 1.306 mg/kg

Components with DNEL

50-00-0: Formaldehyde

worker: Short-term exposure - systemic and local effects, Inhalation: 0.75 mg/m³, 0.6 ppm
worker: Long-term exposure - systemic and local effects, Inhalation: 0.375 mg/m³, 0.3 ppm
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/cm²
consumer: Long-term exposure - systemic and local effects, Inhalation: 0.1 mg/m³

108-78-1: 1,3,5-triazine-2,4,6-triamine; melamine

worker: Short-term exposure - systemic effects, dermal: 117 mg/kg
worker: Short-term exposure - systemic effects, Inhalation: 82.3 mg/m³
worker: Long-term exposure- systemic effects, dermal: 11.8 mg/kg
worker: Long-term exposure- systemic effects, Inhalation: 8.3 mg/m³
consumer: Long-term exposure- systemic effects, dermal: 4.2 mg/kg
consumer: Long-term exposure- systemic effects, Inhalation: 1.5 mg/m³
consumer: Long-term exposure- systemic effects, oral: 0.42 mg/kg

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

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

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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. 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

Handle in accordance with good industrial hygiene and safety practice. Do not inhale vapours or dust. No eating, drinking, smoking or tobacco use at the place of work. Wash contaminated clothing before reuse.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	powder	
Colour:	white	
Odour:	almost odourless	
Odour threshold:	No data available.	
pH value:	approx. 9 (water, 500 g/kg, 20 °C)	(DIN ISO 976)
Melting point:	approx. 100 °C	
Boiling point:	The substance / product decomposes therefore not determined.	
Flash point:	not applicable, the product is a solid	
Evaporation rate:	No data available.	
Flammability:	not highly flammable	
Lower explosion limit:	500 g/m ³ The lower explosion limit of dust has been determined.	(DIN 51649-1)

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Upper explosion limit:

For solids not relevant for classification and labelling.

Ignition temperature:

> 300 °C

(DIN 51794)

Vapour pressure:

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

Information on: Water

Vapour pressure:

23.4 hPa

(20 °C)

Literature data.

Information on: Formaldehyde

Vapour pressure:

1.2 - 1.3 hPa

(20 °C)

The data given are those of the active ingredient.

14 hPa

(55 %(m), 20 °C)

dynamic

(internal method)

Information on: Water

Vapour pressure:

23.4 hPa

(20 °C)

Literature data.

Information on: Formaldehyde

Vapour pressure:

1.2 - 1.3 hPa

(20 °C)

The data given are those of the active ingredient.

14 hPa

(55 %(m), 20 °C)

dynamic

(internal method)

Information on: Water

Vapour pressure:

23.4 hPa

(20 °C)

Literature data.

Information on: Formaldehyde

Vapour pressure:

1.2 - 1.3 hPa

(20 °C)

The data given are those of the active ingredient.

14 hPa

(55 %(m), 20 °C)

dynamic

(internal method)

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Density:

No information is available for the absolute density. Instead the bulk density was determined as a more relevant value.

Relative density:

not determined

Relative vapour density (air):

not determined

Solubility in water:

miscible

Partitioning coefficient n-octanol/water (log Kow): < 3.0
(20 °C)

The statements are based on the properties of the individual components.

Self ignition:

not self-igniting

Thermal decomposition: > 250 °C

No decomposition if correctly stored and handled.

Viscosity, dynamic:

not applicable, the product is a solid

Viscosity, kinematic:

not applicable, the product is a solid

Explosion hazard:

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

Fire promoting properties: not fire-propagating

9.2. Other information

Self heating ability:

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

Bulk density:

approx. 700 kg/m³

(DIN ISO 697)

Grain size distribution

33.53 - 77.79 µm

(D50, Volumetric Distribution, other (measured))

fine particles

Other Information:

none

SECTION 10: Stability and Reactivity

10.1. Reactivity

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

10.2. Chemical stability

The product is chemically stable.

10.3. Possibility of hazardous reactions

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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.

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

Formaldehyde

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. 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): > 5,000 mg/kg

Irritation

Assessment of irritating effects:

Not irritating to the eyes. Prolonged contact with the product can result in skin irritation. 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 (Draize test)

Serious eye damage/irritation

rabbit: non-irritant (Draize test)

Respiratory/Skin sensitization

Assessment of sensitization:

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Sensitization after skin contact possible. 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:

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

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:

The results of animal studies suggest a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

| *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.*

Developmental toxicity

Assessment of teratogenicity:

| *Not a teratogen.*

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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)

Assessment of repeated dose toxicity:

Repeated exposure to large quantities may affect certain organs.

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.

Information on: 1,3,5-triazine-2,4,6-triamine; 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.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

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

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

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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.

Microorganisms/Effect on activated sludge:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The product has not been tested.

Elimination information:

No data available.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

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

12.4. Mobility in soil

Assessment transport between environmental compartments:

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

12.5. Results of PBT and vPvB assessment

The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

12.6. Other adverse effects

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

12.7. 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.

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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.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

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

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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

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

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

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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.

SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

UK REACH SI, Annex XVII, Marketing and Use Restrictions
Number on List: 28

UK REACH SI, Annex XVII, Marketing and Use Restrictions
Number on List: 72

Formaldehyde

Formaldehyde

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.

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

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

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

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

Skin Sens.	Skin sensitization
Carc.	Carcinogenicity
Repr.	Reproductive toxicity
STOT RE	Specific target organ toxicity — repeated exposure
Acute Tox.	Acute toxicity
Skin Corr.	Skin corrosion
Eye Dam.	Serious eye damage
Muta.	Germ cell mutagenicity
Skin Corr./Irrit.	Skin corrosion/irritation
STOT SE	Specific target organ toxicity — single exposure
Eye Dam./Irrit.	Serious eye damage/eye irritation
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H361f	Suspected of damaging fertility.
H351	Suspected of causing cancer.
H373	May cause damage to organs (Urinary tract.) through prolonged or repeated exposure.
H330	Fatal if inhaled.
H341	Suspected of causing genetic defects.
H314	Causes severe skin burns and eye damage.
H301 + H311	Toxic if swallowed or in contact with skin.

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 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

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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.