

SAFETY DATA SHEET

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

· 1.1 Product identifier

· Trade name: **LUDOX® P X-30 (eu)**

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

No further relevant information available.

· Sector of Use

- SU1 Agriculture, forestry, fishery
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU5 Manufacture of textiles, leather, fur
- SU6b Manufacture of pulp, paper and paper products
- SU7 Printing and reproduction of recorded media
- SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
- SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
- SU11 Manufacture of rubber products
- SU12 Manufacture of plastics products, including compounding and conversion
- SU15 Manufacture of fabricated metal products, except machinery and equipment
- SU16 Manufacture of computer, electronic and optical products, electrical equipment
- SU19 Building and construction work

· Product category

- PC1 Adhesives, sealants
- PC2 Adsorbents
- PC8 Biocidal products
- PC9a Coatings and paints, thinners, paint removers
- PC9b Fillers, putties, plasters, modelling clay
- PC12 Fertilisers
- PC14 Metal surface treatment products
- PC15 Non-metal-surface treatment products
- PC18 Ink and toners
- PC19 Intermediate
- PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
- PC23 Leather treatment products
- PC26 Paper and board treatment products
- PC27 Plant protection products
- PC28 Perfumes, fragrances
- PC31 Polishes and wax blends
- PC32 Polymer preparations and compounds
- PC33 Semiconductors
- PC34 Textile dyes, and impregnating products
- PC35 Washing and cleaning products (including solvent based products)
- PC37 Water treatment chemicals
- PC40 Extraction agents
- PC0 Other

· Process category

- PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
- PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
- PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
- PROC5 Mixing or blending in batch processes
- PROC7 Industrial spraying
- PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
- PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
- PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
- PROC14 Tableting, compression, extrusion, pelletisation, granulation

· **Environmental release category** ERC2 Formulation into mixture

· **Article category** Not applicable.

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Trade name: **LUDOX® P X-30 (eu)**

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- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Deffner & Johann GmbH
Mühlackerstr. 13
97520 Röthlein
+49 9723-9350-0
- **Further information obtainable from:**
Deffner & Johann GmbH
- **1.4 Emergency telephone number: Mo-Fr 08:00-15:00 Tel.:**
+49 (0)97239350-0

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**
2-methyl-2H-isothiazol-3-one
1,2-benzisothiazol-3(2H)-one
- **Hazard statements**
H317 May cause an allergic skin reaction.
- **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P401 Store in accordance with local/regional/national/international regulations.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

EU

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Trade name: LUDOX® P X-30 (eu)

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SECTION 3: Composition/information on ingredients· **3.2 Mixtures**· **Description:** Water colloidal suspension of amorphous silica.· **Components (CAS No. and EINECS No.):**

CAS: 7732-18-5 EINECS: 231-791-2	water, distilled, or of similar purity	60-70%
CAS: 7631-86-9 EINECS: 231-545-4 Reg.nr.: 01-2119379499-16-XXXX	amorphous silicon dioxide, chemically prepared	30-40%

· **Dangerous components:**

CAS: 2634-33-5 EINECS: 220-120-9 Reg.nr.: 01-2120761540-60	1,2-benzisothiazol-3(2H)-one ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	< 0.009%
CAS: 2682-20-4 EINECS: 220-239-6 Reg.nr.: 01-2120764690-50	2-methyl-2H-isothiazol-3-one ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠ Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	< 0.009%

SECTION 4: First aid measures· **4.1 Description of first aid measures**· **General information:**

Immediately remove any clothing soiled by the product.

Take note of the following instructions:

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:**

Immediately rinse with water.

Generally the product does not irritate the skin.

Remove contaminated clothing immediately.

If skin irritation occurs, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Do not induce vomiting; call for medical help immediately.

If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions· **4.3 Indication of any immediate medical attention and special treatment needed**

Treat skin and mucous membrane with antihistamine and corticoid preparations.

SECTION 5: Firefighting measures· **5.1 Extinguishing media**· **Suitable extinguishing agents:**

The product is not flammable.

Use fire extinguishing methods suitable to surrounding conditions.

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- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear personal protective equipment.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
- **6.2 Environmental precautions:**
Do not allow to enter sewers, surface or ground water.
Do not allow to penetrate the ground/soil.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Only handle and refill product in closed systems.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Colloidal silica should be stored above 2 °C. Freezing temperatures can cause irreversible precipitation of the silica, therefore the product should be located in heated buildings. Avoid routine storage temperatures above 43 °C.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Protect from frost.
- **Minimum storage temperature:** > 2 °C
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

7631-86-9 amorphous silicon dioxide, chemically prepared

Inhalative	DNEL(acute-local)	4 mg/m ³ (Worker) with reference to the German OEL of 4 mg/m ³ for synthetic amorphous silica
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Trade name: **LUDOX® P X-30 (eu)**

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	DNEL(long-local)	4 mg/m ³ (Worker) with reference to the German OEL of 4 mg/m ³ for synthetic amorphous silica
2634-33-5 1,2-benzisothiazol-3(2H)-one		
Dermal	DNEL(long-systemic)	0.345 mg/kg bw /day (General population) ECHA 2019
Inhalative	DNEL(long-systemic)	0.966 mg/kg bw /day (Worker) ECHA 2019
		1.2 mg/m ³ (General population) ECHA 2019
		6.81 mg/m ³ (Worker) ECHA 2019
2682-20-4 2-methyl-2H-isothiazol-3-one		
Oral	DNEL(long-systemic)	0.027 mg/kg bw /day (General population) ECHA 2019
	DNEL(acute-systemic)	0.053 mg/kg bw /day (General population) ECHA 2019
Inhalative	DNEL(acute-local)	0.043 mg/m ³ (General population) ECHA 2019
		0.043 mg/m ³ (Worker) ECHA 2019
	DNEL(long-local)	0.021 mg/m ³ (General population) ECHA 2019
		0.021 mg/m ³ (Worker) ECHA 2019

· **PNECs****2634-33-5 1,2-benzisothiazol-3(2H)-one**

PNEC	3 mg/kg (soil) ECHA 2019
PNEC	4.03 µg/l (aqua-freshwater) ECHA 2019
	0.403 µg/l (aqua-marine water) ECHA 2019
PNEC	49.9 µg/kg (sediment (freshwater)) ECHA 2019
	4.99 µg/kg (sediment (marine water)) ECHA 2019
PNEC	1.03 mg/l (Sewage Treatment Plant) ECHA 2019

2682-20-4 2-methyl-2H-isothiazol-3-one

PNEC	0.047 mg/kg (soil) ECHA 2019
PNEC	3.39 µg/l (aqua-freshwater) ECHA 2019
	3.39 µg/l (aqua-marine water) ECHA 2019
PNEC	0.23 mg/l (Sewage Treatment Plant) ECHA 2019

· **Additional information:** Valid lists at time of creation were used as basis.· **8.2 Exposure controls**· **Appropriate engineering controls** No further data; see item 7.

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Trade name: LUDOX® P X-30 (eu)

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· Individual protection measures, such as personal protective equipment**· General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

The usual precautionary measures are to be adhered to when handling chemicals.

Do not breathe dust or spray mist.

Do not eat, drink, smoke or sniff while working.

Avoid contact with the skin.

Do not inhale gases / fumes / aerosols.

Use skin protection cream for skin protection.

· Respiratory protection:

If the WEL value is exceeded.

Use suitable respiratory protective device only when aerosol or mist is formed.

Filter P2

· Hand protection

Protective gloves.

Check the condition of the gloves prior to each use.

Check the permeability prior to each anew use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Use gloves of stable material (e.g. Nitrile) - if necessary tri-coted to improve the wearability.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

· Material of gloves

EN 388: Minimum requirements for efficiency level 1 for all groups.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.35 mm

· Penetration time of glove material

EN 420: Minimum requirements for efficiency level 1 for all groups.

The exact break through time has to be obtained from the manufacturer of the protective gloves and has to be observed.

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).

· For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Butyl rubber, BR

Nitrile rubber, NBR

· For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Butyl rubber, BR

· Not suitable are gloves made of the following materials:

Leather gloves

cloth gloves

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Trade name: LUDOX® P X-30 (eu)

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· Eye/face protection



Safety glasses.

· Body protection: Protective work clothing.

* SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

Liquid

· Appearance:

· Form:

Liquid

· Colour:

Colourless

· Odour:

Odourless

· Odour threshold:

Not applicable.

· Melting point/freezing point:

0 °C
(water)

· Boiling point or initial boiling point and boiling range

100 °C
(water)

· Flammability

Product is not flammable.

· Lower and upper explosion limit

· Lower:

Not determined.

· Upper:

Not determined.

· Flash point:

Not determined.

· Auto-ignition temperature:

Product is not self-igniting.

· Ignition temperature:

Not applicable.

· Decomposition temperature:

Not applicable.

· pH at 25 °C

9.0-10.5

· Viscosity:

· Kinematic viscosity

Not determined.

· Dynamic viscosity at 25 °C:

8-12 max. mPas

· Solubility

· water:

Fully miscible.

· Partition coefficient n-octanol/water (log value)

Not determined.

· Vapour pressure at 20 °C:

23 hPa
(water)

· Density and/or relative density

· Density at 20 °C:

1.10-1.30 g/cm³

· Bulk density:

· Vapour density

Not determined.

· 9.2 Other information

No further relevant information available.

· Explosive properties:

Product does not present an explosion hazard.

· Change in condition

· Evaporation rate

Not determined.

· Information with regard to physical hazard classes

· Explosives

Not applicable.

· Flammable gases

Not applicable.

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Trade name: **LUDOX® P X-30 (eu)**

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· Aerosols	Not applicable.
· Oxidising gases	Not applicable.
· Gases under pressure	Not applicable.
· Flammable liquids	Not applicable.
· Flammable solids	Not applicable.
· Self-reactive substances and mixtures	Not applicable.
· Pyrophoric liquids	Not applicable.
· Pyrophoric solids	Not applicable.
· Self-heating substances and mixtures	Not applicable.
· Substances and mixtures, which emit flammable gases in contact with water	Not applicable.
· Oxidising liquids	Not applicable.
· Oxidising solids	Not applicable.
· Organic peroxides	Not applicable.
· Corrosive to metals	Not applicable.
· Desensitised explosives	Not applicable.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Protect from contamination.
No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

7631-86-9 amorphous silicon dioxide, chemically prepared

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (no guidance available)
Inhalative	LC0	>140->2,000 mg/m ³ /4h (rat) (OCED 403) Maximum attainable concentration, mortality does not appear.

2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	454 mg/kg (rat) (OECD 401) ECHA 2019
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402) ECHA 2019

2682-20-4 2-methyl-2H-isothiazol-3-one

Oral	LD50	183-235 mg/kg (rat) (OECD 401) ECHA 2019
Dermal	LD50	242 mg/kg (rat) (OECD 402) ECHA 2019
Inhalative	LC50 (4h)	0.11 mg/l (rat) (OECD 403) ECHA 2019

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Trade name: **LUDOX® P X-30 (eu)**

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· **Skin corrosion/irritation****7631-86-9 amorphous silicon dioxide, chemically prepared**

Skin | IS | 0 (rabbit) (OECD 404)

2682-20-4 2-methyl-2H-isothiazol-3-one

Skin | IS | (rabbit) (OECD 404)

corrosive

ECHA 2019

· **Serious eye damage/irritation****7631-86-9 amorphous silicon dioxide, chemically prepared**

Eye | IS | 0 (rabbit) (OECD 405)

· **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

· **Aspiration hazard** Based on available data, the classification criteria are not met.· **Respiratory sensitisation** No further relevant information available.· **Skin sensitisation****2634-33-5 1,2-benzisothiazol-3(2H)-one**

Sensitisation | SI | (guinea pig) (OECD 406)

sensitising

ECHA 2019

2682-20-4 2-methyl-2H-isothiazol-3-one

Sensitisation | SI | >6 (mouse) (OECD 429)

ECHA 2019

· **Additional toxicological information:**· **Sensitisation** No further relevant information available.· **Repeated dose toxicity****7631-86-9 amorphous silicon dioxide, chemically prepared**

Oral | NOAEL (90 d) | 9,000 mg/kg bw/day (rat) (OECD 408)

Inhalative | NOAEL (90d) | 31 mg/m³ (rat) (acc. to OECD 413)· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**· **Carcinogenicity****7631-86-9 amorphous silicon dioxide, chemically prepared**

Oral | NOAEL (carcinogenicity) | 3,950-5,530 mg/kg bw (mouse)

Literature

1,830 mg/kg bw (rat)

Literature

· **Mutagenicity****7631-86-9 amorphous silicon dioxide, chemically prepared**

AMES Test | >5 mg/plate (in-vitro) (OECD 471)

negative, with and without metabolic activation

ECHA 2012

· **Reproductive toxicity****7631-86-9 amorphous silicon dioxide, chemically prepared**

Oral | NOAEL (maternal toxicity) | 1,350 mg/kg bw/day (rat) (OECD 414)

NOAEL (teratogenicity) | 1,350 mg/kg bw/day (rat) (OECD 414)

· **Specific target organ toxicity (single exposure)** No further relevant information available.· **Specific target organ toxicity (repeated exposure)** No further relevant information available.

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Trade name: **LUDOX® P X-30 (eu)**

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· **11.2 Information on other hazards**· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:**· **Fish toxicity****7631-86-9 amorphous silicon dioxide, chemically prepared**

LC0 (96 h) (static) | 10,000 mg/l (zebra fish) (OECD 203)

2634-33-5 1,2-benzisothiazol-3(2H)-oneLC50 (96 h) | 2.18 mg/l (Oncorhynchus mykiss) (OECD 201)
ECHA 2019**2682-20-4 2-methyl-2H-isothiazol-3-one**LC50 (96 h) | 4.77 mg/l (Oncorhynchus mykiss) (OECD 203)
ECHA 2019· **Water flea toxicity****7631-86-9 amorphous silicon dioxide, chemically prepared**

EC50 (24 h) | >1,000 mg/l (Daphnia magna) (OECD 202)

2634-33-5 1,2-benzisothiazol-3(2H)-oneEC50 (48 h) | 2.94 mg/l (Daphnia magna) (OECD 202)
ECHA 2019**2682-20-4 2-methyl-2H-isothiazol-3-one**EC50 (48 h) | 0.85 mg/l (Daphnia magna) (OECD 202)
ECHA 2019· **Algae toxicity****7631-86-9 amorphous silicon dioxide, chemically prepared**EC50 (72 h) | >10,000 mg/l (Scenedesmus subspicatus) (OECD 201)
comparable substance**2634-33-5 1,2-benzisothiazol-3(2H)-one**EC50 (72 h) | 0.11 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
ECHA 2019**2682-20-4 2-methyl-2H-isothiazol-3-one**EC50 (72 h) | 0.103 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
ECHA 2019· **Bacterial toxicity****2634-33-5 1,2-benzisothiazol-3(2H)-one**EC50 (3 h) | 13 mg/l (sludge) (OECD 209)
ECHA 2019**2682-20-4 2-methyl-2H-isothiazol-3-one**EC50 (3 h) | 41 mg/l (sludge) (OECD 209)
ECHA 2019· **12.2 Persistence and degradability** No further relevant information available.· **Other information:** Amorphous silica dioxide is chemically and biologically inert.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.

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Trade name: LUDOX® P X-30 (eu)

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- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Disposal must be made according to official regulations.
- **Waste disposal key:**
The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by the waste producer.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|--|
| · 14.1 UN number or ID number | |
| · ADR, ADN, IMDG, IATA | Not applicable. |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Not applicable. |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Not applicable. |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Not applicable. |
| · 14.5 Environmental hazards: | Not applicable. |
| · 14.6 Special precautions for user | Not applicable. |
| · Segregation groups | - |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications.
GRACE recommendation for air transport: Cargo aircraft only. |

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Trade name: LUDOX® P X-30 (eu)

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**
2-methyl-2H-isothiazol-3-one
1,2-benzisothiazol-3(2H)-one
- **Hazard statements**
H317 May cause an allergic skin reaction.
- **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P401 Store in accordance with local/regional/national/international regulations.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Directive 2012/18/EU (Seveso III)**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

· REGULATION (EC) 1907/2006 ANNEX XIV (List of Substances Subject to Authorisation)
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None of the ingredients is listed.

· REGULATION (EC) No 1907/2006 ANNEX XVII (Restriction on the Manufacture, Placing on the Market and Use Of Certain Dangerous Substances, Preparations and Articles)

Conditions of restriction: 3

· Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)
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None of the ingredients is listed.

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II (RoHS)
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None of the ingredients is listed.

· REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors
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· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS
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None of the ingredients is listed.

· REGULATION (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· REGULATION (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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Trade name: LUDOX® P X-30 (eu)

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· Classification system:**· Waterhazard class:** WGK1 (AwSV of 18.04.2017): slightly hazardous**· Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

· Candidate List of Substances of Very High Concern for Authorisation

None of the ingredients is listed.

· Registered in the international inventory lists:

TSCA (USA)

DSL (Canada)

AIC (Australia)

EINECS/REACH (Europe)

ENCS (Japan)

KECI (Korea)

PICCS (Philippines)

IECSC (China)

NZIoC (New Zealand)

INSQ (Mexico)

TCSI (Taiwan)

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product Stewardship, Grace Europe Holding GmbH.**· Contact:**

SALES OFFICES

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Trade name: LUDOX® P X-30 (eu)

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- **Date of previous version:** 06.01.2022
- **Version number of previous version:** 1.0
- **The first date of preparation** 04.11.2019
- **Number of revision times and the latest revision date** 1.1 / 06.01.2022
- **Abbreviations and acronyms:**
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - ICAO: International Civil Aviation Organisation
 - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - DNEL: Derived No-Effect Level (REACH)
 - PNEC: Predicted No-Effect Concentration (REACH)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - SVHC: Substances of Very High Concern
 - vPvB: very Persistent and very Bioaccumulative
 - Acute Tox. 3: Acute toxicity – Category 3
 - Acute Tox. 4: Acute toxicity – Category 4
 - Acute Tox. 2: Acute toxicity – Category 2
 - Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 - Skin Irrit. 2: Skin corrosion/irritation – Category 2
 - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 - Skin Sens. 1: Skin sensitisation – Category 1
 - Skin Sens. 1A: Skin sensitisation – Category 1A
 - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- **Others** No further relevant information available.
- *** Data compared to the previous version altered.**