

Rudolf Hensel GmbH  
21039 Börnsen

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

### 1.1 Product identifier

**HENSOTHERM® 421 KS**

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

#### 1.2.1 Relevant uses

Fire retardant coating

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

#### Company

Rudolf Hensel GmbH  
Lauenburger Landstr. 11  
21039 Börnsen / GERMANY  
Phone +49 (0)40-72 10 62 10  
Fax +49 (0)40-72 10 62 52  
Homepage [www.rudolf-hensel.de](http://www.rudolf-hensel.de)  
E-mail [info@rudolf-hensel.de](mailto:info@rudolf-hensel.de)

#### Address enquiries to

#### Technical information

[info@rudolf-hensel.de](mailto:info@rudolf-hensel.de)

#### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

#### Company

+49 (0)40-72 10 62 10 (7:00 - 17:00) 0172 4115390 (17:00 - 07:00)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Carc. 2: H351 Suspected of causing cancer.  
Repr. 2: H361f Suspected of damaging fertility.

### 2.2 Label elements

#### Hazard pictograms



#### Signal word

WARNING

#### Contains:

Melamine

#### Hazard statements

H351 Suspected of causing cancer.  
H361f Suspected of damaging fertility.

#### Precautionary statements

P201 Obtain special instructions before use.  
P260 Do not breathe spray.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.  
P308+P313 IF exposed or concerned: Get medical advice / attention.  
P501 Dispose of contents/container in accordance with local/national regulation.

#### Special labelling

Product treated with preservatives  
METHYLCHLOROISOTHIAZOLINONE/METHYLISOTHIAZOLINONE (3:1).

Contains: 2-Methyl-2H-isothiazolin-3-one, Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one. EUH208 May produce an allergic reaction.

#### 2004/42/CE

0 g/l II A i WB One-pack performance coatings (max. 140 g/l)

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### 2.3 Other hazards

<b>Human health dangers</b>	Frequent persistent contact with the skin can cause skin irritation. Contains no ingredients with endocrine-disrupting properties.
<b>Environmental hazards</b>	Does not contain any PBT or vPvB substances.
<b>Other hazards</b>	Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
3 - < 10	Melamine CAS: 108-78-1, EINECS/ELINCS: 203-615-4, EU-INDEX: 613-345-00-2, Reg-No.: 01-2119485947-16-XXXX GHS/CLP: Carc. 2: H351 - Repr. 2: H361f - STOT RE 2: H373
< 0,02	2-Bromo-2-nitropropane-1,3-diol CAS: 52-51-7, EINECS/ELINCS: 200-143-0, EU-INDEX: 603-085-00-8 GHS/CLP: Acute Tox. 4: H302 H312 - STOT SE 3: H335 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411, M-Factor (acute): 10
< 0,001	Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one CAS: 55965-84-9, EINECS/ELINCS: 911-418-6, Reg-No.: 01-2120764691-48-XXXX GHS/CLP: Acute Tox. 3: H301 - Acute Tox. 2: H310 H330 - Skin Corr. 1C: H314 - Eye Dam. 1: H318 - Skin Sens. 1A: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - EUH071, M-Factor (acute): 100, M-Factor (chronic): 100 SCL [%]: >= 0,0015: Skin Sens. 1A: H317, 0,06 - <0,6: Skin Irrit. 2: H315, >= 0,6: Skin Corr. 1C: H314, 0,06 - <0,6: Eye Irrit. 2: H319, >= 0,6: Eye Dam. 1: H318
< 0,001	2-Methyl-2H-isothiazolin-3-one CAS: 2682-20-4, EINECS/ELINCS: 220-239-6, EU-INDEX: 613-326-00-9, Reg-No.: 01-2120764690-50-XXXX GHS/CLP: Acute Tox. 3: H301 H311 - Acute Tox. 2: H330 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Skin Sens. 1A: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - EUH071, M-Factor (acute): 10, M-Factor (chronic): 1 SCL [%]: >=0,0015: Skin Sens. 1A: H317

**Comment on component parts** For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Get medical advice. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

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

Allergic reactions  
Irritant effects

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

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

**Extinguishing media that must not be used** Full water jet.

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

Risk of formation of toxic pyrolysis products.

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

### SECTION 6: Accidental release measures

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

High risk of slipping due to leakage/spillage of product.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).

Dispose of absorbed material in accordance with the regulations.

#### 6.4 Reference to other sections

See SECTION 8+13

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

The normal safety precautions for handling chemicals must be observed.

Use only in well-ventilated areas.

Provide suitable vacuuming at the processing area.

Do not eat, drink, smoke or take drugs at work.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

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

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Protect from heat/overheating.

Keep in a cool place. Store in a dry place.

**storage class (TRGS 510)**

Storage class 12 (VCI)



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### 7.3 Specific end use(s)

See product use, SECTION 1.2



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**SECTION 8: Exposure controls / personal protection**

**8.1 Control parameters**

**Ingredients with occupational exposure limits to be monitored DE (TRGS 900)**

Substance
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1)
CAS: 55965-84-9, EINECS/ELINCS: 611-341-5, EU-INDEX: 613-167-00-5
Exposure limit: 0,2 mg/m <sup>3</sup> , einatembare Fraktion (DFG)
Factor: 0,4 mg/m <sup>3</sup>

**Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)**

not relevant

**DNEL**

Substance
Melamine, CAS: 108-78-1
Industrial, dermal, Long-term - systemic effects, 11,8 mg/kg
Industrial, inhalative, Long-term - systemic effects, 8,3 mg/m <sup>3</sup>
Industrial, inhalative, Acute - systemic effects, 82,3 mg/m <sup>3</sup>
Industrial, dermal, Acute - systemic effects, 117 mg/kg
general population, oral, Long-term - systemic effects, 0,42 mg/kg
general population, dermal, Long-term - systemic effects, 4,2 mg/kg
general population, inhalative, Long-term - systemic effects, 1,5 mg/m <sup>3</sup>
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
Industrial, inhalative, Acute - local effects, 43 µg/m <sup>3</sup>
Industrial, inhalative, Long-term - local effects, 21 µg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 27 µg/kg bw/day
general population, oral, Acute - systemic effects, 53 µg/kg bw/day
general population, inhalative, Long-term - local effects, 21 µg/m <sup>3</sup>
general population, inhalative, Acute - local effects, 43 µg/m <sup>3</sup>
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
Industrial, inhalative, Acute - local effects, 0,04 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - local effects, 0,02 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 0,09 mg/kg bw/day
general population, inhalative, Long-term - local effects, 0,02 mg/m <sup>3</sup>
general population, oral, Acute - systemic effects, 0,11 mg/kg bw/day
general population, inhalative, Acute - local effects, 0,04 mg/m <sup>3</sup>

**PNEC**

Substance
Melamine, CAS: 108-78-1
sewage treatment plants (STP), 200 mg/L
soil, 0,206 mg/kg soil dw
sediment (seawater), 0,252 mg/kg sediment dw
sediment (freshwater), 2,524 mg/kg sediment dw
seawater, 0,051 mg/L
freshwater, 0,51 mg/L
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
seawater, 3,39 µg/L



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sewage treatment plants (STP), 230 µg/L
freshwater, 3,39 µg/L
soil, 47 µg/kg soil dw
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
sediment (seawater), 0,027 mg/kg sediment dw
freshwater, 3,39 µg/L
seawater, 3,39 µg/L
sediment (freshwater), 0,027 mg/kg sediment dw
soil, 0,01 mg/kg soil dw
sewage treatment plants (STP), 0,23 mg/L

## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0,7mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact during pregnancy/ while nursing.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter P2. (DIN EN 143)
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	pasty
Color	white
Odor	characteristic
Odour threshold	not relevant
pH-value	7,7 - 8,7
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability	no
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/cm <sup>3</sup> ]	1,3 - 1,4 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	miscible
Solubility other solvents	not relevant
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	10000 - 14000 mPa.s (20°C)
Relative vapour density	not relevant
Evaporation speed	not relevant
Melting point [°C]	not determined
Auto-ignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	not determined
Particle characteristics	not applicable

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

### 10.4 Conditions to avoid

See SECTION 7.2.

### 10.5 Incompatible materials

not relevant



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#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.



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## SECTION 11: Toxicological information

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

#### Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg
Substance
Melamine, CAS: 108-78-1
LD50, oral, Rat (male), 3161 mg/kg
LD50, oral, Rat (female), 3828 mg/kg
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
LD50, oral, Rat, 120 mg/kg bw
2-Bromo-2-nitropropane-1,3-diol, CAS: 52-51-7
LD50, oral, Rat, 193 mg/kg
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
LD50, oral, Rat, 64 mg/kg

#### Acute dermal toxicity

Product
ATE-mix, dermal, > 2000 mg/kg
Substance
Melamine, CAS: 108-78-1
LD50, dermal, Rat, > 2000 mg/kg
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
LD50, dermal, Rat, 242 mg/kg bw
2-Bromo-2-nitropropane-1,3-diol, CAS: 52-51-7
LD50, dermal, Rat, 2000 mg/kg
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
LD50, dermal, Rabbit, 87 mg/kg

#### Acute inhalational toxicity

Product
ATE-mix, inhalativ (mist), > 5 mg/l 4h
Substance
Melamine, CAS: 108-78-1
LC50, inhalative, Rat, 5,19 mg/l, OECD 403, 4h
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
LC50, inhalative, Rat, 340 µg/m <sup>3</sup>
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
LC50, inhalative, Rat, 0,33 mg/L 4h

#### Serious eye damage/irritation

Does not contain a relevant substance that meets the classification criteria.  
Based on the available information, the classification criteria are not fulfilled.  
Toxicological data of complete product are not available.

Substance
Melamine, CAS: 108-78-1



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Eye, non-irritating
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
Eye, Causes serious eye damage.
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
Eye, Rabbit, In vivo study, corrosive

**Skin corrosion/irritation** Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance
Melamine, CAS: 108-78-1
Rabbit, OECD 404, non-irritating
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
Rabbit, in vivo, corrosive
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
dermal, Rabbit, OECD 404, corrosive

**Respiratory or skin sensitisation** Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance
Melamine, CAS: 108-78-1
inhalative, non-sensitizing
Guinea pig, OECD 406, non-sensitizing
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
dermal, Guinea pig, OECD 429, sensitising
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
dermal, In vivo study, sensitising

**Specific target organ toxicity — single exposure** Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

**Specific target organ toxicity — repeated exposure** Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance
Melamine, CAS: 108-78-1
NOAEL, oral, Rat, 72 mg/kg bw/day (subchronic), adverse effect observed
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
NOAEL, oral, Rat, 19 mg/kg bw/day, no adverse effect observed
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
NOAEL, dermal, Rat, 0,1 mg/kg bw/day, In vivo study, The effects observed are not sufficient for classification.
NOAEL, oral, Dog, 22 mg/kg bw/day, OECD 409, The effects observed are not sufficient for classification.
NOAEC, inhalative, Rat, 2,36 mg/m³, OECD 413, The effects observed are not sufficient for classification.

**Mutagenicity** Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance
Melamine, CAS: 108-78-1
in vivo, negativ
in vitro, negativ
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4



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in vivo, negativ
in vitro, OECD 471, negativ
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
In vitro study, no adverse effect observed

**Reproduction toxicity**

Suspected of damaging fertility.  
Based on the available information, the classification criteria are fulfilled.  
Toxicological data of complete product are not available.  
Calculation method

**- Fertility**

Substance
Melamine, CAS: 108-78-1
NOAEL, oral, Rat, 89 mg/kg bw/day (subchronic), adverse effect observed
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
NOAEL, oral, Rat, 69 mg/kg bw/day, no adverse effect observed
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
NOAEL, oral, Rat, 22,7 mg/kg bw/day, OECD 416, no adverse effect observed

**- Development**

Substance
Melamine, CAS: 108-78-1
NOAEL, oral, Rabbit, 150 mg/kg bw/day (subacute), no adverse effect observed
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
NOAEL, oral, Rabbit, 30 mg/kg bw/day (chronic), no adverse effect observed
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
NOAEL, oral, Rat, 100 mg/kg bw/day, OECD 415, no adverse effect observed, Effect on developmental toxicity,

**Carcinogenicity**

Suspected of causing cancer.  
Based on the available information, the classification criteria are fulfilled.  
Toxicological data of complete product are not available.

Substance
Melamine, CAS: 108-78-1
LOAEL, oral, Rat, 126 mg/kg bw/day (chronic), adverse effect observed
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
NOAEL, dermal, mouse, 400 mg/kg bw/day (chronic), no adverse effect observed
NOAEL, oral, Rat, 3,1 mg/kg bw/day, no adverse effect observed
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
NOAEL, oral, Rat, 17,2 mg/kg bw/day, OECD 453, no adverse effect observed

**Aspiration hazard**

Does not contain a relevant substance that meets the classification criteria.

**General remarks**

none

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

Contains no ingredients with endocrine-disrupting properties.

**11.2.2 Other information**

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## SECTION 12: Ecological information

### 12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Melamine, CAS: 108-78-1
LC50, (96h), Oncorhynchus kisutch, > 3000 mg/L
EC50, (48h), Daphnia magna, 200 mg/L EPA OPP 72-2
NOEC, (21d), Daphnia magna, >= 11 mg/L OECD 211
ErC50, (96h), Pseudokirchneriella subcapitata, 325 mg/L PRO/FT Algae-AC090-6
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
LC50, (96h), fish, 4,77 mg/L
EC50, (96h), Algae, 72 µg/L
EC50, (48h), Invertebrates, 934 µg/L
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
LC50, (96h), Oncorhynchus mykiss, 0,22 mg/L OECD 203
EC50, (48h), Skeletonema costatum, 0,0052 mg/L (ISO 10253) RAC
EC50, (72h), Pseudokirchneriella subcapitata, 0,048 mg/L OECD 201
EC50, (48h), Daphnia magna, 0,1 mg/L OECD 202
NOEC, (72h), Pseudokirchneriella subcapitata, 0,0012 mg/L OECD 201
NOEC, (28d), Oncorhynchus mykiss, 0,098 mg/L OECD 215
NOEC, (21d), Daphnia magna, 0,004 mg/L OECD 211
NOEC, (48h), Skeletonema costatum, 0,00064 mg/L (ISO 10253) RAC

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	not determined

### 12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

### 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

None known.



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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product**

Coordinate disposal with the authorities if necessary.  
Dispose of as hazardous waste.

**Waste no. (recommended)** 080119\*

**Contaminated packaging**

Packaging that cannot be cleaned should be disposed of as for product.  
Uncontaminated packaging may be taken for recycling.

**Waste no. (recommended)** 150110\* packaging containing residues of or contaminated by hazardous substances  
150102

**SECTION 14: Transport information**

**14.1 UN number or ID number**

**Transport by land according to ADR/RID** not applicable

**Inland navigation (ADN)** not applicable

**Marine transport in accordance with IMDG** not applicable

**Air transport in accordance with IATA** not applicable

**14.2 UN proper shipping name**

**Transport by land according to ADR/RID** NO DANGEROUS GOODS

**Inland navigation (ADN)** NO DANGEROUS GOODS

**Marine transport in accordance with IMDG** NOT CLASSIFIED AS "DANGEROUS GOODS"

**Air transport in accordance with IATA** NOT CLASSIFIED AS "DANGEROUS GOODS"

**14.3 Transport hazard class(es)**

**Transport by land according to ADR/RID** not applicable

**Inland navigation (ADN)** not applicable

**Marine transport in accordance with IMDG** not applicable

**Air transport in accordance with IATA** not applicable



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#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable



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**SECTION 15: Regulatory information**

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

<b>EEC-REGULATIONS</b>	2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148
- Comment on component parts	SVHC (Candidate List of Substances of Very High Concern for authorisation) ≥ 0.1% CAS 108-78-1 - Melamine
- Annex I (REACH)	The product is not subject to Annex I restrictions.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances ≥ 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1% of substances with the following restrictions. 65, 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3
<b>TRANSPORT-REGULATIONS</b>	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)
<b>NATIONAL REGULATIONS (DE):</b>	Hazardous Substances Ordinance - GefStoffV 2016; Detergent and Cleaning Agents Act - WRMG; Federal Water Act - WHG; Technical Rule for Hazardous Substances - TRGS: 200, 220, 615, 900, 905.
- Water hazard class	1, conf. AwSV, 18.04.2017
- Decree for case of interference, observe limits	no
- Class. according to TA-Luft	5.2.5.
- GISBAU, Produktcode	M-DF01
<b>Storage class (TRGS 510)</b>	Storage class 12 (VCI)
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	0 %
- Other regulations	TRGS 510: Storage of hazardous substances in non-stationary containers DGUV Information 213-079: Tätigkeiten mit Gefahrstoffen - Informationen für Beschäftigte.

**15.2 Chemical safety assessment**

not applicable

**SECTION 16: Other information**

**16.1 Hazard statements (SECTION 3)**

H373 May cause damage to organs through prolonged or repeated exposure.  
H361f Suspected of damaging fertility.  
H351 Suspected of causing cancer.  
H330 Fatal if inhaled.  
H301+H311 Toxic if swallowed or in contact with skin.  
EUH071 Corrosive to the respiratory tract.  
H410 Very toxic to aquatic life with long lasting effects.  
H317 May cause an allergic skin reaction.  
H314 Causes severe skin burns and eye damage.  
H310+H330 Fatal in contact with skin or if inhaled.  
H301 Toxic if swallowed.  
H411 Toxic to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.  
H318 Causes serious eye damage.  
H315 Causes skin irritation.  
H335 May cause respiratory irritation.  
H302+H312 Harmful if swallowed or in contact with skin.

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## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV@TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

### Classification procedure

Carc. 2: H351 Suspected of causing cancer. (Calculation method)  
Repr. 2: H361f Suspected of damaging fertility. (Calculation method)





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**Modified position**

SECTION 3 been added: Melamine

SECTION 3 deleted: Melamine

SECTION 2 been added: H351 Suspected of causing cancer.

SECTION 2 been added: Carc. 2

SECTION 9 been added: no

SECTION 9 deleted: not applicable

SECTION 9 been added: liquid

SECTION 9 deleted: pasty

SECTION 11 deleted: Does not contain a relevant substance that meets the classification criteria.

SECTION 11 been added: Based on the available information, the classification criteria are fulfilled.

SECTION 11 deleted: Based on the available information, the classification criteria are not fulfilled.

SECTION 11 been added: Suspected of causing cancer.

SECTION 11 deleted: Does not contain a relevant substance that meets the classification criteria.

SECTION 16 been added: Calculation method

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