28500 Kremer Color Paste - Red, PR 112

1. Identification of the Substance/Mixture and of the Company/Undertaking

1. 1. Product Identifier

Product Name:	*Kremer Color Paste - Red, PR 112*
Article No.:	*28500*
UFI:	*--*

1. 2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:	*Coloring agent*
Uses advised against:	

1. 3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company:	*Kremer Pigmente GmbH & Co. KG*
Address:	*Hauptstr. 41-47, 88317 Aichstetten, Germany*
Tel./Fax.:	*Tel +49 7565 914480, Fax +49 7565 1606*
Internet:	*www.kremer-pigmente.com*
EMail:	*info@kremer-pigmente.com*
Importer:	*--*

1. 4. Emergency No.

Emergency No.:	*+49 7565 914480 (Mon-Fri 8:00 - 17:00)*

1. 4. 2 Poison Center:

2. Hazards Identification

2. 1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)	*This product does not require classification and labelling as hazardous according to CLP/GHS.*
Possible Environmental Effects:	

2. 2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)	*This product does not require classification and labelling as hazardous according to CLP/GHS.*
Hazard designation:	*Not applicable.*
Signal word:	
Hazard designation:	
Safety designation:	
Hazardous components for labelling:	

2. 3. Other Hazards

Contains a mixture of 5-Chloro-2-methylisothiazolin-3(2H)-one (EG

247-500-7) and 2-Methylisothiazol-3(2H)-one (EG 220-239-6) (3:1), 1,2-Benzisothiazol-3(2H)-one, C.I. Azoic Coupl. Comp. 18
EUH208: Can cause allergic reactions.

3. Composition/Information on Ingredients

3. 1. Substance

3. 2. Mixture

Chemical Characterization: *C.I. Pigment Red 112 in aqueous dispersion containing 1,2-propandiol*

Information on Components / Hazardous Ingredients:

Alkylether sulphate, sodium salt (H315-319)	1 - 3 %	CAS-Nr: 219756-63-5 EINECS-Nr: EC-Nr: 639-480-7
C.I. Azoic Coupl. Comp. 18; 3-Hydroxy-2´-methyl-2-naphthanilide (H317-411); REACH Reg. No. 01-2119473801-38-0000	0.25 - 1 %	CAS-Nr: 135-61-5 EINECS-Nr: 205-205-0 EC-Nr:
1,2-Benzisothiazol-3(2H)-one (H302-315-317-318-400 (M=1)-411); Spec. conc. limits: H317 >= 0.05 %; REACH Reg. No. 01-2120761540-60	0.0025-0.025 %	CAS-Nr: 2634-33-5 EINECS-Nr: 220-120-9 EC-Nr: 613-088-00-6
Reaction compound of 5-Chloro-2-methyl-2H-isothiazole-3-one and 2-Methyl-2H-isothiazole-3-one (3:1) (H301-310-314-317-318-330-400-H410); Spec. conc. limits: H314 >= 0.6%, H315 0.06 - <0.6%, H319 0.06 - <0.6%, H317 >= 0.0015%, H318 >= 0.6%; REACH Reg. No. 01-2120764691-48	0.0002-0.0015 %	CAS-Nr: 55965-84-9 EINECS-Nr: EC-Nr: 613-167-00-5

Additional information:

This product/this mixture contains nanoforms.
Nano C.I. Pigment Red 112:
Particle characteristics:
Particle size distribution: d10 = 0.04 µm ± 0.02 µm; d50 = 0.07 µm ± 0.02 µm; d90 = 0.135 µm ± 0.015 µm (TEM)
Level of dustiness: Index: 946.951 1/mg (SMPS; DIN EN 17199-3); 2.464 1/ml (OPS; DIN EN 17199-3)
Specific surface area: 18 m2/g ± 5 m2/g (BET); Crystallinity: crystalline (method XRD); Surface treatment: no
Total content of nanomaterials: 80 - 100 %
Form: Cubes: 88 % (TEM); Spheres: 9 % (TEM); Rods: 3 % (TEM)

4. First Aid Measures

4. 1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

Supply fresh air and keep patient calm.

After skin contact:

Wash off with plenty of water and soap.

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After eye contact:

Rinse open eyes with plenty of water. In case of discomfort seek medical help.

After ingestion:

If symptoms persist consult physician.
Do not induce vomiting.

4. 2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

None known.

Effects:

4. 3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5. 1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO2), extinguishing powder, water spray jet.

Unsuitable extinguishing media:

Water with full jet.

5. 2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: formation of carbon oxides, nitrogen oxides, sulfuric oxides, hydrogen chloride (HCl).

5. 3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device and full protective gear.

Further information:

6. Accidential Release Measures

6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Avoid contact with eyes and skin.

6. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

6. 3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with absorbent material (sand, Silica Gel, acid binder, universal absorbent, saw dust) and dispose accordingly.

6. 4. Reference to other Sections

See Section 13 for information on disposal.

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7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

No special measures necessary if properly handled.

Hygienic measures:

Change contaminated clothing. Preventive skin protection recommended. Wash hands after work.

7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Protect from frost.
Should product turn cloudy, thicken or freeze it can be thawed at room temperature by stirring. Product can then be used as usual.

Requirements for storage areas and containers:

Information on fire and explosion protection:

Follow the usual measures for preventive fire protection.

Storage class:

12; Non-combustible liquids (TRGS 510)

Further Information:

7. 3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8. 1. Parameters to be Controlled

Parameters to be controlled (DE):

Does not contain any components with workplace limit values.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

C.I. Pigment Red 112 (6535-46-2):
42 mg/kg bw/d (worker, skin contact, long-term exposure - systemic effects)
49 mg/m3 (worker, inhalation, long-term exposure - systemic effects)
3 mg/m3 (worker, inhalation, long-term exposure - local effects)
25 mg/kg (consumer, skin contact/swallowing, long-term exposure - systemic effects)
Propylene glycol (57-55-6):
168 mg/m3 (worker, inhalation, long-term exposure - systemic effects)
10 mg/m3 (worker, inhalation, long-term exposure - local effects)
50 mg/m3 (consumer, inhalation, long-term exposure - systemic effects)
10 mg/m3 (consumer, inhalation, long-term exposure - local effects)
213 mg/m3 (consumer, skin contact, long-term exposure -

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systemic effects)

85 mg/m3 (consumer, swallowing, long-term exposure - systemic effects)

5-Chloro-2-methyl-2H-isothiazole-3-one and 2-Methyl-2H-isothiazole-3-one (3:1) (CAS 55965-84-9):

0.02 mg/m3 (worker/consumer, inhalation, long-term exposition - local effects)

0.04 mg/m3 (worker/consumer, inhalation, short-term exposition - local effects)

0.09 mg/m3 bw/d (consumer, swallowing, long-term exposition - systemic effects)

0.11 mg/m3 bw/d (consumer, swallowing, short-term exposition - systemic effects)

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

6.81 mg/m3 (worker, inhalation, long-term exposure - systemic effects)

0.966 mg/kg bw/d (worker, skin contact, long-term exposure - systemic effects)

1.2 mg/m3 (consumer, inhalation, long-term exposure - systemic effects)

0.345 mg/kg bw/d (consumer, skin contact, long-term exposure - systemic effects)

Predicted No-Effect Concentration (PNEC):

Propylene glycol (57-55-6):

Fresh water: 260 mg/l

Fresh water sediment: 572 mg/kg dw

Sea water: 26 mg/l

Sea water sediment: 57.2 mg/kg dw

Sewage treatment system (STP): 20000 mg/l

Intermittent release: 183 mg/l

Soil: 50 mg/kg dw

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1) (55965-84-9):

Fresh water / Sea water: 3.39 µg/l

Fresh water sediment / Sea water sediment: 0.027 mg/kg

Sewage treatment system (STP): 0.23 µg/l

Soil: 0.01 mg/kg

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

Fresh water: 0.00403 mg/l

Sea water: 0.000403 mg/l

Fresh water sediment: 0.0499 mg/kg

Sea water sediment: 0.00499 mg/kg

Sewage treatment system (STP): 1.03 mg/l

Intermittent release: 0.0011 mg/l

Soil: 3 mg/kg

Additional Information:

8. 2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

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Personal Protection

General protective measures:

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

Remove contaminated clothing. Wash hands after work.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

Respiratory equipment required in case of insufficient ventilation, filter type A-P2 (organic gases and vapors).

Hand protection:

Protective gloves

Protective glove material:

Nitrile rubber (NBR)

Please note the manufacturers´ detailed statements, especially about the minimum thickness and the minimum breakthrough time.

Eye protection:

Safety glasses (EN 166)

Body protection:

Protective clothing.

Environmental precautions:

9. Physical and Chemical Properties

9. 1. Information on Basic Physical and Chemical Properties

Form:	*liquid*
Color:	*red*
Odor:	*mild*
Odor threshold:	*not relevant*
pH-Value:	*6 - 7*
Melting temperature:	*not applicable*
Boiling temperature:	*> 100°C (1013 hPa)*
Flash point:	*not available*
Evaporation rate:	*No information available.*
Flammability (solid, gas):	*not applicable*
Upper explosion limit:	*not determined*
Lower explosion limit:	

		not determined
	Vapor pressure:	
		not determined
	Vapor density:	
		No information available.
	Density:	*1.18 g/cm3*
	Solubility in water:	*miscible*
	Coefficient of variation (n-Octanol/Water):	
		not determined
	Auto-ignition temperature:	
		not determined
	Decomposition temperature:	*> 100°C*
	Viscosity, dynamic:	*300 - 1300 mPa.s (23°C)*
	Explosive properties:	
		not applicable
	Oxidizing properties:	
		no information available
	Bulk density:	

9. 2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Partikel characteristics: This substance/ mixture contains nanoforms (see Section 3).

Other information:

10. Stability and Reactivity

10.1. Reactivity

No decomposition if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

None if handled and stored according to specifications.

10.4. Conditions to Avoid

Conditions to avoid:

No information available.

Thermal decomposition:

10.5. Imcompatible Materials

No information available.

10.6. Hazardous Decomposition Products

None if stored and handled according to specifications.

10.7. Further Information

11. Toxicological Information

11. 1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

Acute Toxicity

LD50, oral:

C.I. Azoic Coup. Comp. 18: > 5000 mg/kg (rat, female; OECD 401)
1,2-Benzisothiazol-3(2H)-one: 670 - 784 mg/kg (rat, m/f; OECD 401)
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): 64 mg/kg (rat)

LD50, dermal:

1,2-Benzisothiazol-3(2H)-one: > 2000 mg/kg (rat, m/w; OECD 402)
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): 92.4 mg/kg (rabbit)

LC50, inhalation:

1,2-Benzisothiazol-3(2H)-one: 0.5 mg/l (4h, rat, m/f)
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): 0.171 mg/l (4h, rat, m/f)

Primary effects

Irritant effect on skin:

Alkylether sulphate, sodium salt: irritating to skin.
C.I. Azoic Coupl. Comp. 18: no irritating effect (4h, rabbit)
1,2-Benzisothiazol-3-(2H)-one: irritating (4h, rabbit)
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): caustic after 1-4 hours of exposition

Irritant effect on eyes:

Alkylether sulphate, sodium salt: risk of severe eye damage.
C.I. Azoic Goupl. Comp. 18: no irritating effect (24h; rabbit)
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): Gefahr ernster Augenschäden (Kaninchenauge)
1,2-Benzisothiazol-3(2H)-one: irritating (2.9h - 11d, rabbit)

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

C.I. Azoic Coup. Comp. 18: sensitizing (Mouse Local Lymph Node Assay (LLNA); OECD 429)
1,2-Benzisothiazol-3(2H)-one: may cause sensitization by skin

contact (guinea pig). Harmful if swallowed, fatal if inhaled. Causes skin irritation and severe eye damage. May cause allergic skin reactions.

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): sensitizing (skin, sub-category 1A): Toxic if swallowed, fatal in case of contact with skin and if inhaled. Causes severe skin burns and eye damage. May cause allergic skin reactions.

Mutagenicity:

C.I. Azoic Coupl. Comp. 18: In vitro genetic-toxicity: Ames-Test negative (4-10000 µg/plate, Salmonella typhimurium; OECD 471)

1,2-Benzisothiazol-3(2H)-one: In vitro genetic-toxicity: Mouse-Lymphoma-Test negative (0,1-12,8 µg/ml; Salmonlla typhimurium; OECD 476); Ames-Test negative (0,064-200 µg/plate, Salmonella typhimurium; OECD 471); Chromosomal Aberration Test (1-40 µg/ml, human lymphocytes; OECD 473): positive

In vivo genetic toxicity: negative (560-1400 mg/kg, rat (m), oral; OECD 486); Mikronucleus-Test negative (125-250-500-1000-2000-5000 mg/kg, mouse (m/f), oral; OECD 474)

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): In vivo genetic-toxicity (Micronucleus Test): negative (bone marrow rat, oral, <=5d, 1-5x <=28 mg/kg); negative (mouse, oral, <=5d, 1-5x <=20-30 mg/kg)

Reproductive toxicity:

C.I. Azoic Coupl. Comp. 18: no information available

1,2-Benzisothiazol-3(2H)-one: Did not show any reproductive toxicity: NOAEL Parents: 18.5 mg/kg KW, NOAEL FI: 48 mg/kg KW (oral, food, dosage: 18.5-97.8 mg/kg, rat (m)); NOAEL Parents: 27 mg/kg KW, NOAEL FI: 56.6 mg/kg KW (Oral, Futter, Dosis: 27.0-114.8 mg/kg, rat (f))

Did not show any effects on the development of the unborn child: NOAEL mothers: 10 mg/kg bw (oral, dosage: 10-40-100 mg/kg, rat (w)); NOAEL Teratogenicity: 40 mg/kg bw

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1):

Did not show any reproductive toxicity: NOAEL Parents: 16.3-24.7 mg/kg bw, NOAEL FI: 16.3-24.7 mg/kg bw (Drinking water, dosage: 25-75-225 ppm, rat (m/f)); NOAEL Parents: 2.8-4.4 mg/kg bw, NOAEL FI: 22.7-28 mg/kg bw, NOAEL F2: 35.7-39.1 mg/kg bw (Drinking water, dosage: 30-100-300 ppm, rat (m/f); OECD 416)

Did not show any effects on the development of the unborn child: NOAEL development damage: 15 mg/kg bw (oral, rat (m/f)); NOAEL mothers: > 3.95 mg/kg bw (oral, rat (m/f))

Carcinogenicity:

C.I. Azoic Coupl. Comp. 18: no information available

1,2-Benzisothiazol-3(2H)-one: no information available

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): no evidence found in animal studies

Teratogenicity:

C.I. Azoic Coupl. Comp. 18: no information available

1,2-Benzisothiazol-3(2H)-one: not classified

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-

3-one (3:1): not classified

Specific target organ toxicity (STOT):

Single exposure: the substance or mixture is not classified as specific target organ toxicant.

Repeated exposure: the substance or mixture is not classified as specific target organ toxicant.

Aspiration hazard:

No risk of aspiration.

11. 2. Information on other Hazards

Repeated-Dose Toxicity:

1,2-Benzisothiazol-3(2H)-one: NOAEL: 5 mg/kg; LOAEL: 20 mg/kg (dog m/w, oral (tube feeding): 5 - 20 - 50 mg/kg, daily, 90d)

Endocrine Disrupting Properties:

This substance/mixture does not contain any components with endocrine disrupting properties in a percentage of 0.1 or greater, according to Article 57(f) of the REACH Regulation (EC) No. 1907/2006 or the Delegated Regulation (EC) 2017/2100 or the Delegated Regulaton (EC) 2018/605.

12. Ecological Information

12. 1. Aquatic Toxicity

C.I. Azoic Coupl. Comp. 18:

Chronic aquatic toxicity: toxic to aquatic organisms, with long-term adverse effects.

1,2-Benzisothiazol-3(2H)-one:

Acute aquatic toxicity: very toxic to aquatic organisms.

Chronic aquatic toxicity: toxic to aquatic organisms, with long-term adverse effects.

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1):

Acute aquatic toxicity: very toxic to aquatic organisms.

Chronic aquatic toxicity: very toxic to aquatic organisms, with long-term adverse effects.

Fish toxicity:

C.I. Azoic Coupl. Comp 18: LC50: 1.33-3.25 mg/l (96h, Danio rerio; OECD 203)

1,2-Benzisothiazol-3(2H)-one: 16.7 mg/l (96h, Cyprinodon variegatus); LC50: 1.9 mg/l (96h, Oncorhynchus mykiss; OECD 203); NOEC: 0.21 mg/l (96h, Oncorhynchus mykiss; OECD 215)

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): EC50: 0.22 mg/l (96h, Oncorhynchus mykiss; OECD 203); NOEC: 0.098 mg/l (28d, Oncorhynchus mykiss; OECD 215)

Daphnia toxicity:

C.I. Azoic Coupl. Comp. 18: EC50: > 0.108 mg/l (48h, Daphnia magna; OECD 202)

1,2-Benzisothiazol-3(2H)-one: EC50: 2.94 mg/l (48h, Daphnia magna; OECD 202); EC0: 0.643 mg/l (48h, Daphnia magna; OECD 202); EC50: 0.9893 mg/l (96h, Mysidopsis bahia); NOEC: 1.2 mg/l (21d, Daphnia magna; OECD 211); NOEC: 1.9 mg/l (21d; Daphnia magna; OECD 211)

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-

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3-one (3:1): EC50: 0.1 mg/l (48h, Daphnia magna; OECD 202); NOEC: 0.004 mg/l (21d, Daphnia magna; OECD 202)

Bacteria toxicity:

C.I. Azoic Coupl. Comp. 18: EC50: > 1000 mg/l (3h, active sludge; OECD 209)

1,2-Benzisothiazol-3(2H)-one: EC50: 23 mg/ml (3h, active sludge; OECD 209); EC50: > 811.5 mg/kg dw (28d, soil; OECD 216); NOEC: 263.7 mg/kg dw (28d, soil; OECD 216)

Toxicity to soil dwelling organisms (Artificial soil): LC50: > 410.6 mg/kg (14d, Eisenia foetida; OECD 207); NOEC: 234.5 mg/kg (14d, Eisenia foetida; OECD 207)

Toxicity to terrestrial plants: EC50: 340 mg/kg (20d, Phaseolus vulgaris; OECD 208); NOEC: 90 mg/kg (20d, Phaseolus vulgaris; OECD 208); EC50: 300 mg/kg (19d, Triticum aestivm - Weizen; OECD 208); NOEC: 51 mg/kg (19d, Triticum aestivm; OECD 208)

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): EC50: 7.92 mg/l (3h, active sludge; OECD 209)

Toxicity to terrestrial plants: LC50: 86.6 mg/kg dw (14d, Eisenia foetida; OECD 207); NOEC: 8.83 mg/kg dw (14d, Eisenia foetida; OECD 207)

Algae toxicity:

C.I. Azoic Coupl. Comp. 18: EC50: > 0,711 mg/l (72h, Desmodesmus subspicatus; OECD 201)

1,2-Benzisothiazol-3(2H)-one: ErC50: 0.110 mg/l (72h, Selenastrum capricornutum; OECD 201); NOEC: 0.0403 mg/l (72h, Pseudokirchneriella subcapitata; OECD 201)

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): EC50: 0.0052 mg/l; NOEC: 0.00049 mg/l (48h, Skeletonema costatum; OECD 201)

12. 2. Persistency and Degradability

Product: no data available.

C.I. Azoic Coupl. Comp.: 12 % (28d); not readily biodegradable (32.3-63.4 mg/l, activated sludge; OECD 301B)

1,2-Benzisothiazol-3(2H)-one: partially readily biodegradable (1 mg/l, 63d, activated sludge; OECD 301C)

Stability in water: Degradation (half-life value): 219d (abiotic, pH value: 4Hydrolysis (50°C; OECD 111); > 200d (abiotic, pH value: 7Hydrolysis (50°C; OECD 111); 145d (abiotic, pH value: 9Hydrolysis (50°C; OECD 111)

Photodegradation (direct photolysis): < 1.5 % (Test type: water; light source: Xenon lamp); Decomposes fast under light influence (Test type: air)

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): not readily biodegradable (activated sludge; OECD 301B); Photodegradation: Test type: water (light source: sunlight)

12. 3. Bioaccumulation

Product: no data available.

C.I. Azoic Coupl. Comp. 18: log Pow < 3 (low bioaccumulation)

1,2-Benzisothiazol-3(H)-one: Bioconcentration factor (BCF): 6.62 (0.1 mg/l, 56d, Lepomis macrochirus; OECD 305); log POW: 0.7 (20°C), pH value 7

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-

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3-one (3:1): Bioconcentration factor (BCF): 3.6; log Pow: -0.71 - 0.75 (OECD 107)

12. 4. Mobility

C.I. Azoic Coupl. Comp. 18: no data available.

1,2-Benzisothiazol-3(2H)-one: Adsorption/Soil: KoC: 235 - 566

12. 5. Results of PBT- und vPvP Assessment

On the basis of available data, the product does not contain any PBT or vPvB substances in percentage greater than 0.1 %.

C.I. Azoic Coup. Comp. 18: no data available

1,2-Benzisothiazol-3(2H)-one: This substance is not classified as PBT nor as vPvB.

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): This substance is not classified as PBT (persistent, bioaccumulative, toxic).

12. 6. Endocrine Disrupting Properties

This substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delgated Regulation (EU) No. 2017/2100 or Commission Regulaton (EU) 2018/605 at levels of 0.1 % or higher.

12. 7. Other Adverse Effects

Water hazard class:

Do not let product contaminate ground water, waterways or sewage system.

Behaviour in sewage systems:

Further ecological effects:

C.I. Azoic Coup. Comp. 18: Do not let product enter groundwater, waterways or sewage system.

1,2-Benzisothiazol-3(2H)-one: Do not let product enter groundwater, waterways or sewage system.

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): Do not let product enter groundwater, waterways or sewage system.

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Contaminated packaging must be disposed like the substance.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA

14. 2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR / DOT (US) (land transportation).

IMDG/IATA:

Not hazardous goods

14. 3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

not applicable

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14. 4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14. 5. Environmental Hazards

None

14. 6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14. 7. Maritime Transport in Bulk according to IMO Instruments

not applicable

14. 8. Further Information

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

1, slightly hazardous for water (according to the German Regulation AwSV)

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture

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Technical instructions on air quality:

15. 2. Chemical Safety Assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

15. 3. Further Information

Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable

Regulation (EU) 2019/1021 - Persistent organic pollutants: not regulated / not applicable

Regulation (EC) No. 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: not forbidden and/or not restricted

Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable

EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable

Fire hazard class: not subject to the German "Flammable Liquids Ordinance" (VbF)

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.