EWI-007 LOTUS EFFECT MASONRY PAINT SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY OR UNDERTAKING

1.1 Product Identifier:

EWI-007 Lotus Effect Masonry Paint

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

Life cycle stages

C/PW Consumer use / Widespread use by professional workers

Sector of Use

SU19 Building and construction work

Product category

PC9a Coatings and paints, thinners, paint removers

Process category

PROC10 Roller application or brushing
PROC11 Non industrial spraying
PROC19 Manual activities involving hand contact

Environmental release category

ERC10a / ERC11a Widespread use of articles with low release

Article category

AC0 Other

Application of the substance / the preparation

Dispersion paint/ Latex paint - Product for an industrial, technical and private use for coating building surfaces. For all other uses is advised against/ not recommended.

1.3 Details of the supplier of the safety data sheet:

Manufacturer:

EWI Pro Insulation Systems Ltd
Unit 1-2, King Georges Trading Estate, Davis Road, Chessington, England, KT9 1TT
0800 133 7072
info@ewipro.com
technical@ewipro.com

Producer:

KREISEL - Technika Budowlana Sp. z o.o., ul. Szarych Szeregów 23, 60-462 Poznań, Poland
Tel. +48 61 846 79 00
Fax +48 61 846 79 09
sekretariat@kreisel.pl
www.kreisel.pl

1.4 Emergency phone number:

Environment Agency Emergency Hotline: +44/(0)800 80 70 60

Emergency Services (UK): 999

National poisons information centre: +44/(0)171 - 635 9191

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label Elements:

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms

Signal word

Danger

Warning

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

H304 – Aspiration hazard

H373 – STOT RE 2 May cause damage to organs through prolonged or repeated exposure.

H318 – Causes serious eye damage.

H317 – May cause an allergic skin reaction.

Precautionary statements

P273 Avoid release to the environment.

P501 Dispose of contents/container in keeping with local and national regulations.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338+P310 –IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P302+P352 – IF ON SKIN: Wash with plenty of water.

P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.

Additional information:

EUH208 Contains 2-Octyl-2H-isothiazol-3-one, 4,5-dichloro-2-octyl-2H-isothiazol-3-one, 2-Methyl2H-isothiazol-3-one, 1,2-Benzisothiazol-3(2H)-one, 2,4,7,9-Tetramethyldec-5-yne-4,7-diol.

May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

EUH211: Hazardous respirable droplets may be formed when sprayed

Contains the following biocidal active ingredients to protect the product. Please note the information in the safety data sheet and the legal regulations: BIT, OIT, DCOIT, MIT

2.3 Other Hazards

No further relevant information available.

Results of PBT and vPvB assessment

PBT: This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

vPvB: This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Composition:

➥ This product is a mixture.

3.2 Mixtures:

Description:

Mixture of substances listed below with non-hazardous additions

Dangerous components:		
CAS: 14464-46-1 EINECS: 238-455-4 REACH: [1]	Cristobalite STOT RE 2, H373	25 - 50%
CAS: 13463-67-7 EINECS: 236-675-5 Index number:... 022-006-00-2 REACH: 01-2119489379-17	Titanium dioxide (≥ 1% particles ≤ 10µm, Note 10) Substance with a Community workplace exposure limit	10 - 25%
EC number: 927-632-8 REACH: 01-2119457736-27	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, Cyclic, <2% aromatics Asp. Tox. 1, H304	1 - 2.5%
CAS: 126-86-3 EINECS: 204-809-1 REACH: 01-2119954390-39	2,4,7,9-Tetramethyldec-5-yne-4,7-diol Eye Dam. 1, H318; Skin Sens. 1, H317	≥ 0.1 - < 1%
CAS: 2634-33-5 EINECS: 220-120-9 Index number:... 613-088-00-6 REACH: 01-2120761540-60	1,2-Benzisothiazol-3(2H)-one Acute Tox. 2, H330; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317 ATE: LD_{50} oral: 450 mg/kg Specific concentration limit: Skin Sens.1A; H317: C ≥ 0.036 %	< 0.01%
CAS: 886-50-0 EINECS: 212-950-5 REACH: [2]	2-tert-Butylam ino-4-ethylam ino-6-methylthio-s-triazine (Terbutryn) Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Acute Tox. 4, H302; Skin Sens. 1B, H317 Specific concentration limit: Skin Sens.1B; H317: C ≥ 3 %	≥ 0.0025 - < 0.01%
CAS: 26530-20-1 EINECS: 247-761-7 Index number:... 613-112-00-5 REACH: 01-2120768921-45	2-Octyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 ATE: LD_{50} oral: 125 mg/kg LD_{50} dermal: 311 mg/kg Specific concentration limit: Skin Sens.1A; H317: C ≥ 0.0015 %	≥ 0.00025 - < 0.0015%
CAS: 64359-81-5 EINECS: 264-843-8 Index number:... 613-335-00-8 REACH: [2]	4,5-dichloro-2-octyl-2H-isothiazol-3-one Acute Tox. 2, H330; Skin Corr. 1C, H314; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071 ATE: LD_{50} oral: 567 mg/kg Specific concentration limits: Skin Irrit. 2;H315: C ≥ 0.025 % Eye Irrit. 2; H319: C ≥ 0.025 % Skin Sens. 1A; H317: C ≥ 0.0015 %	≥ 0.00025 - < 0.0015%
CAS: 2682-20-4 EINECS: 220-239-6 REACH: 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 Chronic 1, H410; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1;H317: C ≥ 0.0015 %	< 0.0015%

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Other components (>20%):		
CAS: 7732-18-5 EINECS: 231-791-2 REACH: [1]	Water	25 - 50%

Additional information:

For the wording of the listed hazard phrases refer to section 16.

Note 10 (EU 2020/217): The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

[1] Not subject to registration in accordance with EC 1907/2006 Annex V (point 7) or Article 2.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

General information:

For first responder no special personal protective equipment is required. First responder should avoid contact with the product.

After inhalation:

Take affected persons into fresh air and keep quiet. Seek medical treatment in case of complaints. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately remove all soiled and contaminated clothing. Wash contaminated clothes before reuse. Clean contaminated shoes before reuse. If skin irritation continues, consult a doctor.

After eye contact:

Do not rub eyes because additional damage to eyes can be caused by mechanical stress. If necessary, remove contact lenses and flush the eye immediately while holding eyelids open to water for at least 20 minutes. If possible, isotonic eyewash solution (e. g. 0,9% NaCl). Always consult an occupational physician or ophthalmologist.

After swallowing:

Do not induce vomiting. If conscious rinse mouth with water and drink plenty of water. Consult a physician or poison control centre.

4.2 Main symptoms and effects, acute and delayed:

Symptoms and effects are described in section 2 and 11.

4.3 Indications for medical attention and special treatments to be administered immediately:

If a physician is to be consulted, as per possibility he should be presented this safety data sheet.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing agents:

The mixture is flammable neither in the delivery condition not in mixed conditions. Extinguisher and firefighting are therefore adjusted to the surrounding fire.

5.2 Specific hazards arising from the mixture:

This product is neither explosive nor flammable, and non-oxidizing with other materials. Particular danger of slipping on leaked/spilled product.

5.3 Advice for firefighters:

No special measures required. Collect contaminated firefighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

If appropriate, reference must be made to exposure controls and personal protection (see section 8).

6.2 Precautions for the environment:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

6.3 Methods and material for containment and cleaning:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

6.4 Reference to other sections:

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:

Ensure good ventilation/exhaustion at the workplace. Avoid contact with the eyes and skin. Wear protective clothing. Washing facilities / Water for cleaning yes and skin should be available.

Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not handle the product. Do not eat, drink, smoke or sniff while working.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Keep out of reach of children. Store in cool, dry place in tightly closed receptacles.

Information about storage in one common storage facility:

Keep away from foodstuffs, beverages and feed.

Further information about storage conditions:

Protect from frost. Protect from heat and direct sunlight.

Miniumum storage life:

Minimum storage life (+5°C up to 25°C): See indication on package.

Storage class: 12

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:	
13463-67-7 Titanium dioxide (≥ 1% particles ≤ 10 µm, Note 10)	
WEL (Great Britain)	Long-term value: 10* 4** mg/m³ *total inhalable **respirable
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, Cyclic, <2% aromatics	
TLV (CEFIC) (EU)	Long-term value: 1200 mg/m³ 8 h

Ingredients with limit values that require monitoring at the workplace:		
13463-67-7 Titanium dioxide (≥ 1% particles ≤ 10 µm, Note 10)		
Oral	Long term exposure	700 mg/kg bw/d (Consumer)
Inhalative	Systemic - Long term exposure	10 mg/m³ (Employee)
126-86-3 2,4,7,9-Tetramethyldec-5-yne-4,7-diol		
Oral	Long term exposure Short term exposure	0.25 mg/kg bw/d (Consumer) 0.75 mg/kg bw/d (Consumer)
Dermal	Systemic - Long term exposure Systemic - Short term exposure	0.25 mg/kg bw/d (Consumer) 0.5 mg/kg bw/d (Employee) 0.75 mg/kg bw/d (Consumer) 1.5 mg/kg bw/d (Employee)
Inhalative	Systemic - Long term exposure Systemic - Short term exposure	0.43 mg/m³ (Consumer) 1.76 mg/m³ (Employee) 1.29 mg/m³ (Consumer) 5.28 mg/m³ (Employee)
2634-33-5 1,2-Benzisothiazol-3(2H)-one		
Dermal	Systemic - Long term exposure Systemic - Long term exposure	0.345 mg/kg bw/d (Consumer) 0.966 mg/kg bw/d (Employee) 1.2 mg/m³ (Consumer) 6.81 mg/m³ (Employee)
2682-20-4 2-Methyl-2H-isothiazol-3-one		
Oral	Long term exposure Short term exposure	0.027 mg/kg bw/d (Consumer) 0.053 mg/kg bw/d (Consumer)
Inhalative	Local - Long term exposure Local - Short term exposure	0.021 mg/m³ (Consumer) 0.021 mg/m³ (Employee) 0.34 mg/m³ (Consumer) 0.34 mg/m³ (Employee)

PNECs	
13463-67-7 Titanium dioxide (≥ 1% particles ≤ 10µm, Note 10)	
Freshwater	0.127 mg/l
Marine Water	1 mg/l
Soil	>100 mg/kg
Sediments (Freshwater)	>1000 mg/kg
Sediments (Marine Water)	100 mg/kg
Sewage Plant	100 mg/l
126-86-3 2,4,7,9-Tetramethyldec-5-yne-4,7-diol	
Freshwater	0.04 mg/l (not specified)
Marine Water	0.004 mg/l (not specified)
Sediments (Freshwater)	0.32 mg/kg (not specified)
Sediments (Marine Water)	0.032 mg/kg (not specified)
Sewage Plant	7mg/l (not specified)
2634-33-5 1,2-Benzisothiazol-3(2H)-one	
Freshwater	0.00403 mg/l (not specified)
Marine Water	0.000403 mg/l (not specified)
Soil	3 mg/kg (not specified)
Sediments (Freshwater)	0.0499 mg/kg (not specified)
Sediments (Marine Water)	0.000499 mg/kg (not specified)
Sewage Plant	1.03 mg/l (not specified)
26530-20-1 2-Octyl-2H-isothiazol-3-one	
Freshwater	0.022 mg/l (not specified)
Marine Water	0.00022 mg/l (not specified)
Soil	0.0082 mg/kg (not specified)
Sewage Plant	0.0475 mg/l (not specified)
2682-20-4 2-Methyl-2H-isothiazol-3-one	
Freshwater	0.00339 mg/l (not specified)
Soil	0.047 mg/kg (not specified)
Sediments (Freshwater)	0.00339 mg/kg (not specified)
Sewage Plant	0.23 mg/l (not specified)

Ingredients with biological limit values:

Void

Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls:

8.2.1. Appropriate technical controls:

➥ No further data; see item 7.

8.2.2. Individual protective measures, such as personal protective equipment:

➥ General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Remove contaminated clothing immediately and thoroughly clean it before using it again. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Ensure that washing facilities are available at the workplace.

Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed (FFP2 according to EN 149)

Hand protection: Hand protection: Chemical resistant protective gloves according EN ISO 374. The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Check protective gloves prior to each use for their proper condition. Preventive skin protection by use of skinprotecting agents is recommended. To avoid skin problems reduce the wearing of gloves to the required minimum.

Material of gloves: 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. For the permanent contact gloves made of the following materials are suitable:

- Polychloroprene (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)
- Nitrile rubber (material thickness ≥ 0.35 mm ; breakthrough time ≥ 480 min.)
- Butyl rubber (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)
- Fluororubber (material thickness ≥ 0.4 mm ; breakthrough time ≥ 480 min.)
- Neoprene (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)

Not suitable are gloves made of the following materials:

- Non-liquid-tight gloves made of fabric, leather or similar materials.

Eye/face protection: In case of splash risk use tightly fitting safety goggles according to EN 166.

Body protection: Protective work clothing

Risk management measures:

An operator training/guidance in the correct use of personal protective equipment is necessary to ensure the required level of effectiveness.

8.2.3. Environmental exposure controls:

Avoid release in the environment. Use the surplus or dispose it of properly.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

General Information

➥ Physical state Liquid

Appearance:

➥ Form: Fluid

➥ Colour: Different according to colouring

➥ Odour: Mild

➥ Odour threshold: Not safety relevant

➥ pH at 20 °C (68 °F) 8 - 10

➥ Change in condition

➥ Melting point/freezing point: ~ 0 °C (~ 32 °F)

➥ Boiling point or initial boiling point and boiling range 100 °C (212 °F)

➥ Flammability Product is not flammable.

➥ Flash point: Not applicable

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➥ Auto-ignition temperature: > 400 °C (> 752 °F)

➥ Oxidising properties: None

➥ Explosive properties: Product does not present an explosion hazard.

➥ Ignition temperature: Product is not selfigniting.

➥ Vapour pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)

➥ Density and/or relative density Density at 20 °C (68 °F): 1.4 - 1.6 g/cm³ (11.68 - 13.35 lbs/gal)

➥ Particle size

Viscosity:

➥ Dynamic at 20 °C (68 °F): > 1,000 mPas

➥ Solubility Water: Fully miscible

➥ Partition coefficient n-octanol/water (log value) Not determined

➥ Solids content: 59 - 63 %

Solvent content:

➥ Organic solvents: 1.7 - < 2.2 %

➥ VOC without water (EC): 2.42 - 3.18 g/l

➥ VOC with water (EC): 1.27 - 1.45 g/l

➥ VOC with water (EC): 0.090 %

9.2 Other Information

Information with regard to physical hazard classes

➥Explosives Void

➥ Flammable gases Void

➥ Aerosols Void Oxidising gases Void

➥ Gases under pressure Void

➥ Flammable liquids Void

➥ Flammable solids Void

➥ Self-reactive substances and mixtures Void

➥ Pyrophoric liquids Void

➥ Pyrophoric solids Void

➥ Self-heating substances and mixtures Void

➥ Substances and mixtures, which emit flammable gases in contact with water Void

➥ Oxidising liquids Void

➥ Oxidising solids Void

➥ Organic peroxides Void

➥ Corrosive to metals Void

➥ Desensitised explosives Void

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No dangerous reactions known.

10.2 Chemical stability:

The product is stable as long as it is stored properly and dry.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Conditions to avoid:

No further relevant information available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

No dangerous decomposition products known.

Minimum storage life:

Minimum storage life (+5°C up to 25°C): See indication on package.

Additional information:

No further relevant information available.

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SECTION 11: TOXICOLOGICAL INFORMATION

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

The product was not investigated. The statement is derived from the properties of the single components.

Acute toxicity:

Based on available data, the classification criteria are not met

LD/LC50 values relevant for classification:		
13463-67-7 Titanium dioxide (≥ 1% particles ≤ 10µm, Note 10)		
Oral	LD_{50} Carcinogenicity	> 5,000 mg/kg (Rat) (OECD 425) (Mouse) (ECHA Registration dossier) no effects observed
Dermal	LD_{50}	> 5,000 mg/kg (Rabbit)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, Cyclic, <2% aromatics		
Oral	LD_{50}	> 5,000 mg/kg (Rat) (OECD 401)
Dermal	LD_{50}	> 5,000 mg/kg (Rabbit) (OECD 402)
Inhalative	LC_{50} (4h)	> 5,000 mg/m³ (Rat) (OECD 403)
126-86-3 2,4,7,9-Tetramethyldec-5-yne-4,7-diol		
Oral	LD_{50}	4,600 mg/kg (Rat)
Dermal	LD_{50}	> 2,000 mg/kg (Rat)
2634-33-5 1,2-Benzisothiazol-3(2H)-one		
Oral	LD_{50}	450 mg/kg (ATE 1,150 mg/kg (Mouse) 597 mg/kg (Rat)
Dermal	LD_{50}	>2000 mg/kg (Rat)
Inhalative	LC_{50} (4h)	0.05 mg/l (ATE)
886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)		
Oral	LD_{50}	500 mg/kg (Rat) (OECD 423) S 1219
Dermal	LD_{50}	>2,000 mg/kg (Rat) (OECD 402) S 1220
Inhalative	LC_{50} (4h)	5.21 mg/l (Rat) (OECD 403) S 1221, dust
26530-20-1 2-Octyl-2H-isothiazol-3-one		
Oral	LD_{50}	125 mg/kg (ATE) 125 mg/kg (Rat) (OECD 401)
Dermal	LD_{50}	311 mg/kg (ATE) 311 mg/kg (Rat) (OECD 402)
Inhalative	LC_{50} (4h)	0.5 mg/l (ATE)

64359-81-5 4,5-dichloro-2-octyl-2H-isothiazol-3-one		
Oral	LD_{50}	567 mg/kg (ATE)
Inhalative	LC_{50} (4h) LC_{50} (4h)	0.05 mg/l (ATE) 0.0555 – 0.53 mg/l (Rat)
2682-20-4 2-Methyl-2H-isothiazol-3-one		
Oral	LD_{50}	232-249 mg/kg (Rat) (OECD 401)
Dermal	LD_{50}	242 mg/kg (Rat) (OECD 402)
Inhalative	LC_{50} (4h) LC_{50} (4h)	0.05 mg/l (ATE) 0.11 mg/l (Rat) (OECD 403)

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Other information (about experimental toxicology):		
13463-67-7 Titanium dioxide (≥ 1% particles ≤ 10µm, Note 10)		
Oral	OECD 414 (Prenatal Developmental Toxicity)	(Rat) no effects observed
Irritation of skin	OECD 404 (skin)	(Rabbit) not corrosive
Irritation of eyes	OECD 405 (eye)	(Rabbit) not irritant
Sensitisation	OECD 429 (LLNA) OECD 421 (Reproduction screening test)	(Mouse) not sensitizing (Rat) no effects observed
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, Cyclic, <2% aromatics		
Oral	OECD 471 (In vitro - Mutation, Ames-Test)	(Salmonella typhimurium) negative
Irritation of skin	OECD 404 (skin)	(not specified) slight irritant
Irritation of eyes	OECD 405 (eye)	(not specified) slight irritant
Sensitisation	OECD 406 (sensitization) OECD 474 (In vivo - Micro nucleous test) O E C D 4 1 6 (Two - Generation Reproduction)	(not specified) not sensitizing (Mouse) negative (Rat) negative
886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)		
Oral	OECD 414 (Prenatal Developmental Toxicity) OECD 471 (In vitro - Mutation, Ames-Test) OECD 473 (In vitro - Mutation) OECD 476 (In vitro - Mutation)	(Rabbit) (OECD 414) S 1358 (Salmonella typhimurium) (OECD 471) S 1231 (Chinese hamster, oocyte) (OECD 473) S 1232 (Chinese hamster, oocyte) (OECD 476) S 1233
Irritation of skin	OECD 404 (skin)	(Rabbit) (OECD 404) not irritant - S 1222
Irritation of eyes	OECD 405 (eye)	(Rabbit) (OECD 405) not irritant - S 1419
Sensitisation	OECD 429 (LLNA)	(Mouse) (OECD 429) sensitizing - S 1224
26530-20-1 2-Octyl-2H-isothiazol-3-one		
Oral	OECD 471 (In vitro - Mutation, Ames-Test)	(Salmonella typhimurium) Negative
Irritation of skin	OECD 404 (skin)	(Rabbit) Corrosive Category 1B
Irritation of eyes	OECD 405 (eye)	(Rabbit) Irreversible effects Category 1
Sensitisation	OECD 406 (sensitization)	(Guinea pig) Sensitizing Category 1
2682-20-4 2-Methyl-2H-isothiazol-3-one		
Oral	OECD 408 (Repeated dose oral toxicity 90d)	19 mg/kg bw/day (Rat)
Irritation of skin	OECD 404 (skin)	(Rabbit) corrosive
Sensitisation	OECD 406 (sensitization)	(Guinea pig) sensitizing

Primary irritant effect:

On the skin:

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

On the eye:

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

Sensitization:

Sensitising effect by skin contact is possible by prolonged exposure.

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

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Specific target organ toxicity - single exposure (STOT SE):

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

Specific target organ toxicity - repeated exposure (STOT RE):

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

Aspiration hazard:

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

Practical experience

No further relevant information available.

General comments

No further relevant information available.

11.2 Information on other hazards

Endocrine disrupting properties		
55406-53-6	3-Iodo-2-propynylbutylcarbamate	List II

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

The product was not investigated. The statement is derived from the properties of the single components.

Aquatic toxicity:	
13463-67-7 Titanium dioxide (≥ 1% particles ≤ 10µm, Note 10)	
LC_{50} (48h) 5.5 mg/l	(Water flea - daphnia magma)
LC_{50} (96h Marine water)	> 10,000 mg/l (Fish)
LC_{50} (96h Freshwater) (static)	> 100 mg/l (Goldfish) (OECD 203)
EC_{50} (48h)	> 1,000 mg/l (Water flea - daphnia magma) (ASTM Standard E729)
EC_{50} (72h)	5.83 mg/l (Algae - pseudokirchneriella subcapitata)
EC_{50} (3h)	> 1,000 mg/l (Activated sludge organisms) (OECD 209)
EC_{50} (7d)	> 100 mg/l (Lemna minor) (OECD 221)
NOEC (48h)	1 mg/l (Water flea - daphnia magma)
NOEC (21d)	> 10 mg/kg (Water flea - daphnia magma) (OECD 202)
NOEC (28d) (static)	> 100 mg/l (Chironomus riparius) (OECD 219) Soil
NOEC (32d)	> 1 mg/l (Algae - scenedesmus quadricauda)
NOEC (8d)	> 1,000 mg/l (Zebrafish - danio rerio) (OECD 212)

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Hydrocarbons, C14-C18, n-alkanes, isoalkanes, Cyclic, <2% aromatics	
LC_{50} (96h)	> 1,000 mg/l (Fish)
EC_{50} (48h)	> 1,000 mg/l (Water flea - daphnia)
IC_{50} (72h)	> 1,000 mg/l (Algae - pseudokirchneriella subcapitata)
126-86-3 2,4,7,9-Tetramethyldec-5-yne-4,7-diol	
LC_{50} (24h)	42 mg/l (Carp - cyprinus carpio)
LC_{50} (96h)	36 mg/l (Fat head minnow - pimephales promelas) 43 mg/l (Turbot - scophthalmus maximus)
EC_{50} (48h)	91 mg/l (Water flea - daphnia magma)
EC_{50} (72h)	82 mg/l (Algae - selenastrum capricornutum)
2634-33-5 1,2-Benzisothiazol-3(2H)-one	
LC_{50} (96h)	1.6 mg/l (Rainbow trout - oncorhynchus mykis) (OECD 203)
EC_{50} (48h)	3.27 mg/l (Water flea - daphnia magma) 1.5 mg/l (Water flea - daphnia)
EC_{50} (72h)	0.11 mg/l (Algae - selenastrum capricornutum) (OECD 201) 2 mg/l (Algae scenedesmus subcapitatus)
EC_{50} (16h)	0.4 mg/l (Pseudomonas putida)
EC_{10} (72h)	0.04 mg/l (Algae - selenastrum capricornutum) (OECD 201)
NOEC (21d)	1.2 mg/l (Water flea - daphnia magma) (OECD 202)
NOEC (28d)	0.21 mg/l (Rainbow trout - oncorhynchus mykis) (OECD 215)
886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)	
LC_{50} (96h)	1.9 mg/l (Rainbow trout - oncorhynchus mykis) (OECD 203) S 1242
EC_{50} (48h)	6.4 mg/l (Water flea - daphnia)
EC_{50} (72h)	0.0067 mg/l (Algae - desmodesmus subspicatus) (OECD 201) S 1244
IC_{50} (72h)	0.0055 mg/l (Algae - selenastrum capricornutum) (OECD 201)
NOEC (72h)	0.0005 mg/l (Algae - desmodesmus subspicatus) (OECD 201) S 1244
NOEC (21d)	0.05 mg/l (Water flea - daphnia) (OECD 211) S 1240
NOEC (28d)	0.073 mg/l (Fat head minnow - pimephales promelas) (OECD 210) S 1241
26530-20-1 2-Octyl-2H-isothiazol-3-one	
LC_{50} (96h)	0.03 mg/l (Rainbow trout - oncorhynchus mykis)
LC_{50} (96h Freshwater)	0.122 mg/l (Fish - pisces)
EC_{10}	0.068 mg/l (Algae) 0.022 mg/l (Fish - pisces) 0.035 mg/l (Aquatic invertebrates)
EC_{50}	30.4 mg/l (Activated sewage sludge)
EC_{50} (48h)	0.32 mg/l (Water flea - daphnia magma) 0.42 mg/l (Water flea - daphnia) (OECD 202)
EC_{50} (72h)	0.084 mg/l (Algae scenedesmus subcapitatus) (OECD 201) S 63
EC_{50} (96h)	0.047 mg/l (Rainbow trout - oncorhynchus mykis) (OECD 203)
EC_{50}/LC_{50}	0.15 mg/l (Algae) 0.181 mg/l (Aquatic invertebrates)
IC_{50} (72h)	0.084 mg/l (Algae scenedesmus subcapitatus) (OECD 201)
64359-81-5 4,5-dichloro-2-octyl-2H-isothiazol-3-one	
LC_{50} (96h)	0.014 mg/l (Perch - lepomis macrochirus) (OECD 203) 0.0027 mg/l (Rainbow trout - oncorhynchus mykis)
EC_{50}	5.7 mg/l (Activated sludge organisms)
ErC_{50} (72h)	0.077 mg/l (Algae - pseudokirchneriella subcapitata) (OECD 201)
EC_{50} (48h)	0.0057 mg/l (Water flea - daphnia magma)
EC_{50} (72h)	0.048 mg/l (Algae - pseudokirchneriella subcapitata) (OECD 201)
NOEC (96h)	0.00056 mg/l (Rainbow trout - oncorhynchus mykis)

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2682-20-4 2-Methyl-2H-isothiazol-3-one	
LC_{50} (96h Marine water)	2.98 mg/l (Water flea - daphnia magma)
LC_{50} (96h Freshwater)	0.934 mg/l (Water flea - daphnia magma)
LC_{50}	4.77 mg/l (Fish) (OECD 203)
EC_{10}	0.044 mg/l (Water flea - daphnia magma) (OECD 211) 4.93 mg/l (Fish)
EC_{50}	41 mg/l (Activated sewage sludge) (OECD 209) 0.103 mg/l (Algae - pseudokirchneriella subcapitata) (OECD 201)
EC_{50} (16h)	2.3 mg/l (Pseudomonas putida)

12.2 Persistence and degradability:

A part of the components is biodegradable.

26530-20-1 2-Octyl-2H-isothiazol-3-one		
Oral	OECD 309 Simulation Biodegradation - Surface Water	0.6 - 1.4 d (not specified) S 635

Degree of elimination:	
2634-33-5 1,2-Benzisothiazol-3(2H)-one	
Biodegradation	> 70 % (Activated sewage sludge) (OECD 303 A) > 90 % (not specified) (OECD 302 B)
886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)	
Biodegradation	< 70 % (Activated sewage sludge) (OECD 303 A) S 1237 0 % (Activated sludge organisms) (OECD 301 F) S 1238

12.3 Bioaccumulative potential:

Bioconcentration factor (BCF)	
2634-33-5 1,2-Benzisothiazol-3(2H)-one	
Bioconcentration factor (BCF)	6.95 (not specified) (OECD 305)
886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)	
Bioconcentration factor (BCF)	103 (calculated) EPWIN

12.4 Soil mobility:

No further relevant information available.

12.5 PBT and vPvB assessment results:

PBT: This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

vPvB: This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Literature

No further relevant information available.

Ecotoxical effects:

No further relevant information available.

Remark:

Harmful to fish.

Behaviour in sewage processing plants:	
2634-33-5 1,2-Benzisothiazol-3(2H)-one	
EC_{20} (0,5h)	3.3 mg/l (Activated sludge organisms) (OECD 209)
EC_{20} (3h)	3.3 mg/l (Activated sludge organisms) (OECD 209)
EC_{50} (3h)	13 mg/l (Activated sludge organisms) (OECD 209)
OECD 302 B Zahn Wellens Test	90 % (Activated sludge organisms) (OECD 302)
OECD 303 A Activated Sludge Units	% (Rat) > 70 % (Activated sludge organisms) (OECD 303 A)
886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)	
EC_{20} (3h)	> 100 mg/l (Activated sludge organisms) (OECD 209)
26530-20-1 2-Octyl-2H-isothiazol-3-one	
EC_{20} (0,5h)	10.4 mg/l (Activated sewage sludge) (TTC-Test 8901 Macherey Nagel)
EC_{20} (3h)	7.3 mg/l (Activated sewage sludge) (OECD 209)
OECD 303 A Activated Sludge Units	> 83 % (Activated sewage sludge) S 313
2682-20-4 2-Methyl-2H-isothiazol-3-one	
EC_{20} (3h)	2.8 mg/l (Activated sludge organisms) (DIN 38412-3 TTC-Test)

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Risk of environmental pollution. Follow the applicable regulations on waste disposal. Keep unused products and contaminated packaging sealed. Provide containers for waste collection. Hand over for disposal to a specialist company authorised to carry out such activities. Prevent the product from being released into the environment. Do not allow the product to enter the sewage system. Must not be disposed of with municipal waste. Empty containers can be utilised for energy recovery in a waste incineration plant or, if classified accordingly, collected at a landfill site. Perfectly cleaned packaging can be recycled.

Dispose of contents/container in accordance with local/regional/national/international regulations.

European waste catalogue	
08 01 12	Waste paint and varnish other than those mentioned in 08 01 11
15 01 02	Plastic packaging
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP14	Ecotoxic

08 01 12 for residues of the unprocessed product

15 01 02 for the completely emptied packaging

Uncleaned packaging

Recommendation:

Disposal must be made according to official regulations.

Recycle only completely emptied packaging.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

SECTION 14: TRANSPORT INFORMATION

14.1. UN Number:

UN number or ID number ADR, IMDG, IATA: Void

14.2. Proper Shipping Name:

UN proper shipping name ADR, IMDG, IATA: Void

14.3. Transport Hazard Class(es):

Transport hazard class(es) ADR, ADN, IMDG, IATA Class: Void

14.4. Packing Group:

Packing group ADR, IMDG, IATA: Void

14.5. Environmental Hazards:

Not applicable

14.6. Special Precautions for User:

Not applicable

14.7. Transport in Bulk According to MARPOL Annex II and the IBC Code:

Not applicable

UN "Model Regulation": Void

SECTION 15: REGULATORY INFORMATION

15.1 Regulations and legislation on health, safety, and environment specific to the mixture:

Poisons Act

Regulated explosives precursors
None of the ingredients is listed.

Regulated poisons
None of the ingredients is listed.

Reportable explosives precursors		
7631-99-4	Sodium nitrate	Listed

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Reportable poisons
None of the ingredients is listed.

Directive 2004/42/EC

IIA(c) 40 - this product contains < 40 g/l VOC (see chapter 9)

Product type: PAINTS AND VARNISHES

• Product subcategory: Exterior walls of mineral substrate

· Water-borne coatings, Limit value: 40 g/l

Directive (EU) 2012/18

Named dangerous substances - ANNEX I :

None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII : Conditions of restriction: 3

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

Regulation (EU) 2019/1148

Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.

Regulation (EC) 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.

Biozide ingredients (EU) 528/2012:

Data based on recipe and information on the raw materials from the supply chain.

Tetramethylolacetylene diurea	< 0.03%
1,2-Benzisothiazol-3(2H)-one	< 0.01%
2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)	≥ 0.0025 - < 0.01%
3-Iodo-2-propynylbutylcarbamate	< 0.005%
2-Octyl-2H-isothiazol-3-one	≥ 0.00025 - < 0.0015%
4,5-dichloro-2-octyl-2H-isothiazol-3-one	≥ 0.00025 - < 0.0015%
2-Methyl-2H-isothiazol-3-one	< 0.0015%

Waterhazard class:

Water hazard class 1 (Self-assessment): Slightly hazardous for water

Other regulations, limitations and prohibitive regulations:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/ EC and 2000/21/EC
- Commission Regulation (EU) No 878/2020 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste

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- Regulation (EC) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

15.2 Chemical Safety Assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Reasons for changes:

* Data compared to the previous version altered.

Relevant phrases:

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory tract.

Advice for instructions: Additional trainings, which go beyond the prescribed training in activities involving hazardous substances are not required.

Classification according to Regulation (EC) No 1272/2008	
Hazardous to the aquatic environment - longterm (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Abbreviations and acronyms:

MAK: Maximale Arbeitsplatz-Konzentration (maximum concentration of a chemical substance in the workplace, Austria/ Germany)

PBT: persistent, bioaccumulative and toxic properties

vPvB: very persistent, bioaccumulatice properties

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1: Skin corrosion/irritation – Category 1

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

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

Skin Sens. 1B: Skin sensitisation – Category 1B

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Further information:

The information in this safety data sheet describe the safety requirements of our product and is based on our current state of our knowledge. They provide no assurance of product quality. Existing laws, ordinances and regulations, including those that are not mentioned in this data sheet must be observed by the recipient of our products in their own responsibility.

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It is the user's responsibility to take appropriate precautionary measures and apply the recommendations described previously. The information presented in this datasheet should not be considered exhaustive.

Any use of the product not specified in the instructions on the packaging, our website, or other documents provided by our company is entirely the responsibility of the user.

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