Advanced Eggshell

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 04/12/2025 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : Advanced Eggshell

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

Relevant identified uses

Main use category : Consumer applications
Professional applications
Used by spraying
Application by non-spray methods,
Use of the substance/mixture : Paint

Uses advised against

Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier
FSW Coatings Ltd.
Ballaghanea
A82 N267 Virginia, Co Cavan
Ireland
T +353 49854 7209
info@fleetwood.ie

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH208 - Contains 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one, Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	Conc.	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Titanium dioxide substance with national workplace exposure limit(s) (IE)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379-17	≥ 15 - < 20	Not classified
Limestone substance with national workplace exposure limit(s) (IE)	CAS-No.: 1317-65-3 EC-No.: 215-279-6	≥ 2.5 - < 5	Not classified
Propane-1,2-diol substance with national workplace exposure limit(s) (IE)	CAS-No.: 57-55-6 EC-No.: 200-338-0 REACH-no: 01-2119456809-23	≥ 1 - < 2.5	Not classified
Triethylamine substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 121-44-8 EC-No.: 204-469-4 EC Index-No.: 612-004-00-5	≥ 0.1 - < 1	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318
1,2-benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 REACH-no: 01-2120761540-60	< 0.036	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (Note B)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5 REACH-no: 01-2120764691-48	< 0.0015	Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Oral), H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
2-methylisothiazol-3(2H)-one	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9 REACH-no: 01-2120764690-50	< 0.0015	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)

Name	Product identifier	Conc.	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glyoxal substance with national workplace exposure limit(s) (IE) (Note B)	CAS-No.: 107-22-2 EC-No.: 203-474-9 EC Index-No.: 605-016-00-7	< 0.001	Muta. 2, H341 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317
Formaldehyde substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit (Note B)(Note D)	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5	< 0.001	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Muta. 2, H341 Carc. 1B, H350

Specific concentration limits:		
Name	**Product identifier**	**Specific concentration limits (Conc.)**
Triethylamine	CAS-No.: 121-44-8 EC-No.: 204-469-4 EC Index-No.: 612-004-00-5	(1 ≤ C ≤ 100) STOT SE 3; H335
1,2-benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 REACH-no: 01-2120761540-60	(0.036 ≤ C ≤ 100) Skin Sens. 1; H317
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5 REACH-no: 01-2120764691-48	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317 (0.06 ≤ C < 0.6) Skin Irrit. 2; H315 (0.06 ≤ C < 0.6) Eye Irrit. 2; H319 (0.6 ≤ C ≤ 100) Skin Corr. 1C; H314 (0.6 ≤ C ≤ 100) Eye Dam. 1; H318
2-methylisothiazol-3(2H)-one	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9 REACH-no: 01-2120764690-50	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317
Formaldehyde	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5	(5 ≤ C < 25) Skin Irrit. 2; H315 (5 ≤ C < 25) Eye Irrit. 2; H319 (5 ≤ C ≤ 100) STOT SE 3; H335 (25 ≤ C ≤ 100) Skin Corr. 1B; H314

Note B: Note B : Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid … %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If medical advice is needed, have product container or label at hand. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. Give oxygen or artificial respiration if necessary.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical attention if symptoms occur.

First-aid measures after eye contact : Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth out with water. Do NOT induce vomiting. Get medical advice/attention.

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

Symptoms/effects after inhalation : At high concentrations, the vapours can be irritating to the respiratory system.

Symptoms/effects after skin contact : Repeated or prolonged contact may cause allergic reactions in very susceptible persons. Symptoms may include skin rash, inflammation, redness, itching, swelling and similar related to an allergic reaction.

Symptoms/effects after eye contact : In the event of contact with the liquid: Redness. Itching. Lacrimation. Blurred vision.

Symptoms/effects after ingestion : Ingestion may cause nausea and vomiting. Abdominal pain.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Alcohol-resistant foam. Carbon dioxide (CO2). Water spray. Use extinguishing agent suitable for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Burning produces stinking and toxic fumes. In case of fire and/or explosion do not breathe fumes.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

5.3. Advice for firefighters

Firefighting instructions : Evacuate the danger area. Move containers from fire area if it can be done without personal risk. Exercise caution when fighting any chemical fire. Fight fire from safe distance and protected location. Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area. Avoid breathing vapours. Avoid contact with skin and eyes. Do not touch or walk on the spilled product. No action shall be taken without appropriate training or involving any personal risk.

For emergency responders

Protective equipment	:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	:	Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	:	Stop leak without risks if possible. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not touch or walk on the spilled product.
Methods for cleaning up	:	Caution : this product can cause the floor to be slippery. Move containers from spill area. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean contaminated surfaces with an excess of water. Prevent entry to sewers and public waters.
Other information	:	Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques.

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Provide local exhaust or general room ventilation. Avoid breathing vapours. Wear personal protective equipment. Avoid contact with skin and eyes. Empty containers retain product residue and can be hazardous. Do not re-use container for any purpose.
Hygiene measures	:	Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store in dry, cool, well-ventilated area. Keep away from food, drink and animal feedingstuffs. Keep only in the original container. Keep container closed when not in use. Containers which are opened should be properly resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Store in accordance with local, regional, national or international regulation.
Incompatible products	:	Strong acids. Strong bases. Strong oxidizing agents.
Incompatible materials	:	Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Titanium dioxide (13463-67-7)	
Ireland - Occupational Exposure Limits	
Local name	Titanium dioxide

Titanium dioxide (13463-67-7)	
OEL TWA	10 mg/m³ total inhalable dust 4 mg/m³ respirable dust
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024

Limestone (1317-65-3)	
Ireland - Occupational Exposure Limits	
Local name	Calcium carbonate [Limestone, Marble]
OEL TWA	10 mg/m³ total inhalable dust 4 mg/m³ respirable dust
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024

Formaldehyde (50-00-0)	
EU - Binding Occupational Exposure Limit (BOEL)	
Local name	Formaldehyde
BOEL TWA	0.37 mg/m³
	0.3 ppm
BOEL STEL	0.74 mg/m³
	0.6 ppm
Notes	Dermal sensitisation (The substance can cause sensitisation of the skin)
Regulatory reference	DIRECTIVE (EU) 2019/983 (amending Directive 2004/37/EC)
Ireland - Occupational Exposure Limits	
Local name	Formaldehyde
OEL TWA	0.37 mg/m³
	0.3 ppm
OEL STEL	0.738 mg/m³
	0.6 ppm
Remark	BOELV (Binding Occupational Exposure Limit Values), Carc.1B (Substances presumed to have carcinogenic potential for humans), Sens (In the workplace, respiratory or dermal exposures to sensitising agents may occur. Sensitisers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The “sens” notation alone does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitisers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))
Regulatory reference	Chemical Agents Code of Practice 2024

Glyoxal (107-22-2)	
Ireland - Occupational Exposure Limits	
Local name	Glyoxal
OEL TWA	0.1 mg/m³ IFV (Inhlable Fraction and Vapour)
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)

Glyoxal (107-22-2)	
Regulatory reference	Chemical Agents Code of Practice 2024

Propane-1,2-diol (57-55-6)	
Ireland - Occupational Exposure Limits	
Local name	Propane-1,2-diol [Propylene glycol]
OEL TWA	470 mg/m³ total (vapour and particulates) 10 mg/m³ particulates
	150 ppm total (vapour and particulates)
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024

Triethylamine (121-44-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Triethylamine
IOEL TWA	8.4 mg/m³
	2 ppm
IOEL STEL	12.6 mg/m³
	3 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Ireland - Occupational Exposure Limits	
Local name	Triethylamine
OEL TWA	8.4 mg/m³
	2 ppm
OEL STEL	12.6 mg/m³
	3 ppm
Remark	IOELV (Indicative Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible)
Regulatory reference	Chemical Agents Code of Practice 2024

Recommended monitoring procedures

Monitoring methods	
Monitoring methods	Refer to all applicable national, international and local regulations or provisions. Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents. Workplace atmospheres. Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy. Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

DNEL and PNEC

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.966 mg/kg bw/day

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
Long-term - systemic effects, inhalation	6.81 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	1.2 mg/m³
Long-term - systemic effects, dermal	0.345 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	0.00403 mg/l
PNEC aqua (marine water)	0.000403 mg/l
PNEC aqua (intermittent, freshwater)	0.0011 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.0499 mg/kg dwt
PNEC sediment (marine water)	0.00499 mg/kg dwt
PNEC (Soil)	
PNEC soil	3 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1.03 mg/l

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	0.04 mg/m³
Acute - local effects, inhalation	0.04 mg/m³
Long-term - systemic effects, inhalation	0.02 mg/m³
Long-term - local effects, inhalation	0.02 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	0.11 mg/kg bw/day
Acute - local effects, inhalation	0.04 mg/m³
Long-term - systemic effects,oral	0.09 mg/kg bw/day
Long-term - local effects, inhalation	0.02 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.00339 mg/l
PNEC aqua (marine water)	0.00339 mg/l
PNEC aqua (intermittent, freshwater)	0.00339 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.027 mg/kg dwt
PNEC sediment (marine water)	0.027 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.01 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.23 mg/l

Titanium dioxide (13463-67-7)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	1.25 mg/m³
Long-term - local effects, inhalation	10 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	700 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0.127 mg/l
PNEC aqua (intermittent, freshwater)	0.61 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1000 mg/kg dwt
PNEC sediment (marine water)	100 mg/kg dwt
PNEC (Soil)	
PNEC soil	100 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	1667 kg/kg food
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

Propane-1,2-diol (57-55-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	168 mg/m³
Long-term - local effects, inhalation	10 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	50 mg/m³
Long-term - local effects, inhalation	10 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	260 mg/l
PNEC aqua (marine water)	26 mg/l
PNEC aqua (intermittent, freshwater)	183 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	572 mg/kg dwt
PNEC sediment (marine water)	57.2 mg/kg dwt
PNEC (Soil)	
PNEC soil	50 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	20000 mg/l

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:
Handle in accordance with good industrial hygiene and safety procedures. Provide local exhaust or general room ventilation. Avoid all unnecessary exposure. Ensure exposure is below occupational exposure limits (where available).

Personal protection equipment

Personal protective equipment:
Wear recommended personal protective equipment. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

Eye and face protection

Eye protection:
Use splash goggles when eye contact due to splashing is possible. ISO 16321-1

Skin protection

Skin and body protection:
Wear suitable protective clothing. Skin protection appropriate to the conditions of use should be provided

Hand protection:
Chemical resistant gloves (according to European standard ISO 374-1 or equivalent). Recommended materials. Nitrile rubber. Thickness 0.33 mm. Breakthrough time: 6 (> 480 minutes). Chloroprene rubber. Thickness 0.6 mm. Breakthrough time: 6 (> 480 minutes). Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Respiratory protection

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment

Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment. Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	White. Opaque.
Appearance	:	Viscous.
Odour	:	Faint.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	2 °C
Boiling point	:	42 °C
Flammability	:	Not applicable
Lower explosion limit	:	Not available
Upper explosion limit	:	0 vol %
Flash point	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	7.5 – 9
Viscosity, kinematic	:	> 21 mm²/s (40 °C)
Solubility	:	Partially soluble. in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	3.12 kPa (20 °C)
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	1.26
Relative vapour density at 20°C	:	7.5
Particle characteristics	:	Not applicable

9.2. Other information

Other safety characteristics

VOC content : 41 g/l
Volume solids : 42.0 % ±1.0
Weight solids : 54.0 % ±1.0

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerisation: Will not occur.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Protect from sunlight. Overheating. Extremely high or low temperatures. Do not freeze.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
LD50 oral rat	490 mg/kg (OECD 401)
LD50 dermal rabbit	> 2000 mg/kg (OECD 402)
LC50 Inhalation - Rat	0.21 mg/l/4h (OECD 403)

2-methylisothiazol-3(2H)-one (2682-20-4)	
LD50 oral rat	285 mg/kg
LD50 dermal rabbit	380 mg/kg
LC50 Inhalation - Rat	0.384 mg/l/4h (OECD 403)
LC50 Inhalation - Rat (Dust/Mist)	0.11 mg/l/4h (OECD 403)

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LD50 oral rat	53 mg/kg
LD50 oral	60 mg/kg mouse
LD50 dermal rabbit	92.4 mg/kg
LC50 Inhalation - Rat	0.33 mg/l/4h (OECD 403)

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
LC50 Inhalation - Rat	> 6.82 mg/l/4h

Limestone (1317-65-3)	
LD50 oral rat	> 5000 mg/kg

Glyoxal (107-22-2)	
LD50 oral rat	7070 mg/kg
LD50 dermal rabbit	10000 mg/kg

Propane-1,2-diol (57-55-6)	
LD50 oral rat	22000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	41 mg/l

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 7.5 – 9

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 7.5 – 9

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Advanced Eggshell	
Viscosity, kinematic	> 21 mm²/s (40 °C)

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Other information

Other information : No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long–term (chronic) : Not classified (Based on available data, the classification criteria are not met)

Additional information : No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
LC50 - Fish [1]	1.9 mg/l (96 h, Oncorhynchus mykiss, OECD 203)
LC50 - Fish [2]	3.4 mg/l (96 h, Pimephales promelas)
EC50 - Crustacea [1]	3.27 mg/l (48 h, Daphnia magna, OECD 202)
EC50 - Other aquatic organisms [1]	3.3 mg/l (3 h, activated sludge, OECD 209)
EC50 - Other aquatic organisms [2]	13 mg/l (3 h, activated sludge, OECD 209)
EC50 72h - Algae [1]	0.11 mg/l (72 h, Selenastrum capricornutum, OECD 201)
ErC50 algae	0.1087 mg/l (24 h, Pseudokirchenriella subcapitata)
ErC50 other aquatic plants	0.11 mg/l (72 h, Raphidocelis subcapitata, OECD 201)
NOEC chronic fish	0.21 mg/l (28 d, Oncorhynchus mykiss, OECD 215)
NOEC chronic crustacea	1.2 mg/l (21 d, Daphnia sp., OECD 211)
NOEC chronic algae	0.04 mg/l (72 h, Selenastrum capricornutum, OECD 201)

2-methylisothiazol-3(2H)-one (2682-20-4)	
LC50 - Fish [1]	4.77 mg/l (96 h, Oncorhynchus mykiss, OECD 203)
EC50 - Crustacea [1]	0.85 mg/l (48 h, Daphnia magna)
EC50 - Crustacea [2]	1.81 mg/l (96 h, Mysidopsis bahia)
EC50 - Other aquatic organisms [1]	34.6 mg/l (3 h, activated sludge, OECD 209)
EC50 72h - Algae [1]	0.157 mg/l (72 h, Pseudokirchneriella subcapitata, OECD 201)
ErC50 algae	0.22 mg/l (120 h, Pseudokirchneriella subcapitata, OECD 201)
ErC50 other aquatic plants	0.072 mg/l (96 h, Skeletonema costatum, OECD 201)
NOEC chronic fish	2.1 mg/l (33 d, Pimephales promelas, OECD 210)
NOEC chronic crustacea	0.044 mg/l (21 d, Daphnia magna, OECD 211)
NOEC chronic algae	0.072 mg/l (96 h, Skeletonema costatum, OECD 201)

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LC50 - Fish [1]	0.22 mg/l (96 h, Oncorhynchus mykiss, OECD 203)
EC50 - Crustacea [1]	0.16 mg/l (48 h, Daphnia magna, OECD 202)
EC50 - Other aquatic organisms [1]	0.0052 mg/l (48 h, Skeletonema costatum, ISO 10253)
EC50 - Other aquatic organisms [2]	7.92 mg/l (3 h, activated sludge, OECD 209)
EC50 72h - Algae [1]	0.048 mg/l (72 h, Pseudokirchneriella subcapitata, OECD 201)
ErC50 algae	0.0052 mg/l (48 h, Skeletonema costatum, OECD 201)
ErC50 other aquatic plants	0.0273 mg/l (72 h, Pseudokirchneriella subcapitata, OECD 201)
NOEC (chronic)	0.00064 mg/l (48 h, Skeletonema costatum, ISO 10253)
NOEC chronic fish	0.098 mg/l (28 d, Oncorhynchus mykiss, OECD 215)
NOEC chronic crustacea	0.004 mg/l (21 d, Daphnia sp., OECD 211)
NOEC chronic algae	0.0012 mg/l (72 h, Pseudokirchneriella subcapitata, OECD 201)

Titanium dioxide (13463-67-7)	
LC50 - Fish [1]	> 1000 mg/l (96 h, Pimephales promelas)
LC50 - Fish [2]	> 10000 mg/l (96 h, Cyprinodon variegatus variegatus, OECD 203)
EC50 - Crustacea [1]	> 1000 mg/l (48 h, Daphnia magna, OECD 202)

Titanium dioxide (13463-67-7)	
EC50 - Crustacea [2]	> 10000 mg/l (48 h, Acartia tonsa, ISO 14669, ISO 5667-16)
EC50 - Other aquatic organisms [1]	> 10000 mg/l (3 h, activated sludge, OECD 209)
EC50 72h - Algae [1]	> 100 mg/l (72 h, Pseudokirchneriella subcapitata, OECD 201)
EC50 72h - Algae [2]	> 1000 mg/l (72 h, Skeletoma costatum, ISO 10253)
ErC50 algae	> 100 mg/l (72 h, Pseudokirchneriella subcapitata)

Limestone (1317-65-3)	
LC50 - Fish [1]	> 10000 mg/l (96 h, Oncorhynchus mykiss)
EC50 - Crustacea [1]	> 1000 mg/l (48 h, Daphnia magna)
EC50 72h - Algae [1]	> 200 mg/l (72 h, Desmodesmus subspicatus)
NOEC chronic algae	75 mg/l (72 h, Desmodesmus subspicatus)

Propane-1,2-diol (57-55-6)	
LC50 - Fish [1]	40613 mg/l (96 h, Oncorhynchus mykiss, OECD 203)
LC50 - Fish [2]	55770 mg/l (96 h, Pimephales promelas)
EC50 - Crustacea [1]	> 4000 mg/l (48 h, Daphnia magna)
EC50 - Crustacea [2]	18340 mg/l (48 h, Ceriodaphnia dubia, OECD 202)
EC50 96h - Algae [1]	19000 mg/l (96 h, Scenedesmus subspicatus)
EC50 96h - Algae [2]	19100 mg/l (96 h, Skeletonema costatum)
ErC50 algae	19000 mg/l (96 h, Pseudokirchneriella subcapitata, OECD 201)
NOEC chronic crustacea	13020 mg/l (7 d, Daphnia magna)
NOEC chronic algae	15000 mg/l (96 h, Scenedesmus subspicatus)

12.2. Persistence and degradability

Advanced Eggshell	
Persistence and degradability	Biodegradability in water: no data available.

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
Persistence and degradability	Rapidly degradable
Biodegradation	≈ 90 % (OECD 302B)

2-methylisothiazol-3(2H)-one (2682-20-4)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0.32 % (28 d, OECD 301B)

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
Persistence and degradability	Rapidly degradable
Biodegradation	> 60 % (28 d, OECD 301D)

Propane-1,2-diol (57-55-6)	
Persistence and degradability	Rapidly degradable
Biochemical oxygen demand (BOD)	1.17 g O2/l
Chemical oxygen demand (COD)	4.7 g O2/l
Biodegradation	> 81 % (28 d, OECD 301F)

12.3. Bioaccumulative potential

Advanced Eggshell	
Bioaccumulative potential	No data available.

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
BCF - Fish [1]	6.95 (OECD 305)
Partition coefficient n-octanol/water (Log Pow)	0.7 (OECD 117)

2-methylisothiazol-3(2H)-one (2682-20-4)	
BCF - Fish [1]	3.16
Partition coefficient n-octanol/water (Log Pow)	≤ 0.32 (OECD 117)

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
BCF - Fish [1]	3.16
BCF - Fish [2]	48.1 (56 d, Lepomis macrochirus)
Partition coefficient n-octanol/water (Log Pow)	-0.71 – 0.75 (OECD 107)

Propane-1,2-diol (57-55-6)	
BCF - Fish [1]	< 0.09
Partition coefficient n-octanol/water (Log Kow)	-1.07

12.4. Mobility in soil

Advanced Eggshell	
Ecology - soil	Adsorbs into the soil.

Propane-1,2-diol (57-55-6)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.46 (20 °C)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

Other adverse effects : No other effects known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecological waste information : Avoid release to the environment.
European List of Waste (LoW, EC 2000/532) : Disposal must be carried out using appropriate EWC code

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content : 41 g/l

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified

Abbreviations and acronyms:	
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
TLM	Median Tolerance Limit
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TRGS	Technical Rules for Hazardous Substances
VOC	Volatile Organic Compounds
WGK	Water Hazard Class
vPvB	Very Persistent and Very Bioaccumulative

Data sources : ECHA (European Chemicals Agency). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and all its amendments and modifications. Supplier's safety documents.

Training advice : Training staff on good practice.

Full text of H- and EUH-statements:	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C

Full text of H- and EUH-statements:	
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one, Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.