

Product ADVANCED EGGSHELL  
 Revision date 27 August 2021  
 Revision 1



**Safety Data Sheet (SDS)**  
 according to Regulation (EC) No. 1907/2006

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**Section 1: Identification of the substance/mixture and of the company/undertaking**

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**1.1 Product identifier**

<b>Product name</b>	<b>ADVANCED EGGSHELL</b>
<b>Other means of identification</b>	No information available.

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

<b>Identified uses</b>	Paint or paint related material.
<b>Uses advised against</b>	Any other purpose.

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

<b>Supplier</b>	FSW Coatings Ltd Virginia Co Cavan Ireland Tel: 353 49854 7209 info@fsw.ie
<b>Contact person</b>	

**1.4 Emergency telephone number**

<b>Emergency telephone</b>	+ 353 49854 7209 (Between 0900 and 1700 hrs Monday-Friday)
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**Section 2: Hazards identification**

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**2.1 Classification of the substance or mixture**

<b>Classification (EC 1272/2008)</b>	
Physical and chemical hazards	Not classified
Human health	Not classified
Environment	Not classified

**2.2 Label elements**

<b>Contains</b>	Not applicable
<b>Label in accordance with (EC) no. 1272/2008</b>	No pictogram required
<b>Signal word</b>	No Signal Word
<b>Hazard statements</b>	No hazard statements required
<b>Precautionary statements</b>	No precautionary statements required
<b>EUH statements</b>	EUH208 Contains Iron(1+), chloro[dimethyl 9,9-dihydroxy-3-methyl-2,4-di(2-pyridin-1-kN)-7-[(2-pyridinyl-kN)methyl]-3,7-diazabicyclo[3.3.1]nonane-1,5-dicarboxylate-kN3,kN7]-, chloride. May produce an allergic reaction. EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**2.3 Other hazards**

Not applicable.

**Section 3: Composition/information on ingredients****3.1 Substance**

Not applicable.

**3.2 Mixtures**

Name	Product identifier	Regulation (EC) No 1272/2008	%
titanium dioxide	CAS-No.: 13463-67-7 EC No.: 236-675-5 REACH Reg No.: 01-2119489379-17-0002		1-25%
Limestone	CAS-No.: 1317-65-3 EC No.: 215-279-6		1-5%
propane-1,2-diol	CAS-No.: 57-55-6 EC No.: 200-338-0 REACH Reg No.: 01-2119456809-23-0000		1-5%
Iron(1+), chloro[dimethyl 9,9-dihydroxy-3-methyl-2,4-di(2-pyridinyl-kN)-7-[(2-pyridinyl-kN)methyl]-3,7-diazabicyclo-3.3.1]nonane-1,5-dicarboxylate-kN3,kN7]-, chloride	CAS-No.: 478945-46-9 EC No.:	Acute Tox 3 - H301, Skin. Sens 1 - H317, STOT RE 2 - H373, Aquatic Chronic 3 - H412	0.1-0.9%
formaldehyde 100 %	CAS-No.: 50-00-0 EC No.: 200-001-8	Acute Tox 3 - H301, Acute Tox 2 - H310, Skin Corr. 1B - H314, Skin. Sens 1 - H317, Acute Tox 3 - H331, Muta. 2- H341, Carc. 1B - H350	<0.1%

The full text for all hazard statements are displayed in section 16.

**Composition comments**

The data shown are in accordance with the latest EC Directives.

Formaldehyde: Specific Concentration Limits = Eye Irrit. 2; H319: 5 % ≤ C < 25 %, STOT SE 3; H335: C ≥ 5 %, Skin Corr. 1B; H314: C ≥ 25 %, Skin Irrit. 2; H315: 5 % ≤ C < 25 %, Skin Sens. 1; H317: C ≥ 0,2 %.

Iron(1+), chloro[dimethyl 9,9-dihydroxy-3-methyl-2,4-di(2-pyridinyl-kN)-7-[(2-pyridinyl-kN)methyl]-3,7-diazabicyclo[3.3.1]nonane-1,5-dicarboxylate-kN3,kN7]-, chloride: M(chronic) = 0.

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

Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor.

**Inhalation**

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort or breathing difficulties develop.

**Ingestion**

Rinse mouth out and then drink plenty of water. Seek medical attention.

**Skin contact**

Remove affected person from source of contamination. Wash exposed area with soap and water. Get medical attention if irritation develops or persists.

**Eye contact**

Remove contact lenses if present and easy to do so. Hold eye lids open. Rinse with a gentle stream water for at least 15 minutes. Seek medical attention.

**4.2 Most important symptoms and effects, both acute and delayed****General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

Prolonged inhalation of fog or mist may be irritating to nose and throat.

**Ingestion**

Prolonged exposure to product may cause irritation to lining of the mouth.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin. May cause an allergic skin reaction.

**Eye contact**

May cause temporary eye irritation.

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

Notes to the physician	Treat symptomatically.
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**Section 5: Firefighting measures****5.1 Extinguishing media**

Extinguishing media	This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	High volume water jet.

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

Hazardous combustion products	During fire, gases hazardous to health may be formed.
Unusual fire & explosion hazards	No unusual fire or explosion hazards noted.
Specific hazards	None noted.

**5.3 Advice for firefighters**

Special fire fighting procedures	Avoid breathing fire vapours. Keep up-wind to avoid fumes. Fight advanced or massive fires from safe distance or protected location. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so.
Protective equipment for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**Section 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel	Wear protective clothing as described in Section 8 of this safety data sheet.
For emergency responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

**6.2 Environmental precautions**

Environmental precautions	Avoid discharge in to drains and water courses.
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**6.3 Methods and material for containment and cleaning up**

Spill clean up methods	Stop leak if possible without risk. Wear necessary protective equipment. Absorb spillage with non-combustible, absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash thoroughly after dealing with a spillage.
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**6.4 Reference to other sections**

Reference to other sections	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
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**Section 7: Handling and storage****7.1 Precautions for safe handling**

Handling	Read and follow manufacturer's recommendations. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Do not eat, drink or smoke when using the product. Avoid spilling, skin and eye contact. Ensure adequate ventilation. Use proper personal protection when handling (refer to Section 8).
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**7.2 Conditions for safe storage, including any incompatibilities**

Storage precautions	Store in tightly closed original container in a cool, dry and well-ventilated place. Keep upright, locked up and out of reach of children.
Storage class	Unspecified storage.

**7.3 Specific end use(s)**

**Specific end use(s)**  
**Usage description**

The identified uses for this product are detailed in Section 1.  
 Use only according to directions. Replace and tighten cap after use.

**Section 8: Exposure controls/Personal protection****8.1 Control parameters**

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
titanium dioxide	OEL		10 mg/m <sup>3</sup>			
titanium dioxide	OEL		4 mg/m <sup>3</sup>			
Limestone	OEL		4 mg/m <sup>3</sup>			
Limestone	OEL		10 mg/m <sup>3</sup>			
propane-1,2-diol	OEL	150 ppm	470 mg/m <sup>3</sup>			
propane-1,2-diol	OEL		10 mg/m <sup>3</sup>			
formaldehyde 100 %	OEL	0.3 ppm	0.37 mg/m <sup>3</sup>	0.6 ppm	0.738 mg/m <sup>3</sup>	BOELV, Carc 1B, Sens, Limit value 0.5ppm/0.62mg/m <sup>3</sup> for the healthcare, funeral and embalming sectors until 11 July 2024.

**Ingredient comments**

Ireland, Occupational Exposure Limits 2021.

**8.2 Exposure Controls**

**Protective equipment**



**Engineering measures**

Observe occupational exposure limits and minimize the risk of inhalation of dust. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

**Respiratory equipment**

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use type ABEK (EN 14387) respirator cartridges.

**Hand protection**

Use suitable protective gloves if there is a risk of skin contact. Consult manufacturer for specific advice. Suggested material: Nitrile rubber gloves. Layer thickness: 0.11mm. Breakthrough time: >480 min.

**Eye protection**

Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

**Other protection**

Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. The selected clothing must satisfy the European norm standard EN 943.

**Hygiene measures**

Wash hands and / or face before breaks and at the end of the shift. Do not eat, drink, or smoke while using this product. Avoid contact with skin, eyes and clothing.

**Process conditions**

Use only according to directions. Ensure that eye flushing systems and safety showers are located close by in the work place.

**Section 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

**Appearance**

Viscous liquid.

**Colour**

White and various colours.

**Odour**

Faint odour.

**Odour threshold - lower**

No information available as testing has not been completed.

**Odour threshold - upper**

No information available as testing has not been completed.

<b>pH-Value, Conc. Solution</b>	>8.1
<b>pH-Value, Diluted solution</b>	No information available as testing has not been completed.
<b>Melting point</b>	May start to solidify at the temperatures below 2°C. This is based on data for the following ingredient: water
<b>Initial boiling point and boiling range</b>	>42°C
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability state</b>	Non flammable
<b>Flammability limit - lower(%)</b>	No information available as testing has not been completed.
<b>Flammability limit - upper(%)</b>	0%
<b>Vapour pressure</b>	Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 3.12 kPa (23.4 mm Hg) (at 20°C)
<b>Vapour density (air=1)</b>	Highest known value: 7.5 (Air = 1) (isobutyric acid, monoester with 2,2, 4-trimethylpentan-1,3-diol).
<b>Relative density</b>	1.33
<b>Bulk density</b>	No information available as testing has not been completed.
<b>Solubility</b>	Partially soluble in cold water.
<b>Decomposition temperature</b>	Stable under normal handling and storage conditions
<b>Partition coefficient; n-Octanol/Water</b>	No information available as testing has not been completed.
<b>Auto ignition temperature (°C)</b>	Not applicable.
<b>Viscosity</b>	Kinematic (40°C): >0.21 cm <sup>2</sup> /s
<b>Explosive properties</b>	Not classified as explosive.
<b>Oxidising properties</b>	The product does not meet the criteria to be classified as oxidising.

## 9.2 Other information

<b>Molecular weight</b>	No information available as testing has not been completed.
<b>Volatile organic compound</b>	36.00 g/litre
<b>Other information</b>	Volume solids: 43.0% +/- 1.0% Weight Solids: 57.0% +/- 1.0%

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## Section 10: Stability and reactivity

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### 10.1 Reactivity

<b>Reactivity</b>	No specific reactivity hazards associated with this product.
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### 10.2 Chemical stability

<b>Stability</b>	Stable under normal temperature conditions and recommended use.
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### 10.3 Possibility of hazardous reactions

<b>Hazardous reactions</b>	For information on hazardous reactions see section 10.1.
<b>Hazardous polymerisation</b>	Unknown.

**Polymerisation description** Unknown.

#### 10.4 Conditions to Avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Extremes of temperature and direct sunlight.

#### 10.5 Incompatible materials

**Materials to avoid** Do not mix with other chemicals unless listed on directions. Strong oxidising substances.

#### 10.6 Hazardous decomposition products

**Hazardous decomposition products** When heated, vapours/gases hazardous to health may be formed.

### Section 11: Toxicological information

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

**Toxicological information** No toxicological information for the overall finished product.

**Acute toxicity (Oral LD50)** No information available as testing has not been completed.  
**Acute toxicity (Dermal LD50)** No information available as testing has not been completed.  
**Acute toxicity (Inhalation LD50)** No information available as testing has not been completed.

**Serious eye damage/irritation** Product is not classified as an eye irritant.

**Skin corrosion/irritation** The product is not classified as a skin corrosion/irritation hazard.

**Respiratory sensitisation** The product is not classified as a respiratory hazard.  
**Skin sensitisation** The product is not classified as a skin sensitisation hazard.

**Germ cell mutagenicity** The product is not classified as a mutagen.

**Carcinogenicity** The product is not classified as a carcinogen hazard.

**Specific target organ toxicity - Single exposure:**  
**STOT - Single exposure** The product is not classified as a single exposure specific target organ toxin.  
**Specific target organ toxicity - Repeated exposure:**  
**STOT - Repeated exposure** The product is not classified as a repeat exposure specific target organ toxin.

**Inhalation** Prolonged inhalation of fog or mist may be irritating to nose and throat.  
**Ingestion** Prolonged exposure to product may cause irritation to lining of the mouth.  
**Skin contact** Prolonged contact may cause redness, irritation and dry skin. May cause an allergic skin reaction.  
**Eye contact** May cause temporary eye irritation.  
**Waste management** When handling waste, consideration should be made to the safety precautions applying to handling of the product.

**Routes of entry** Eyes, skin, ingestion or inhalation.  
**Target organs** No target organs specified.

**Aspiration hazards:** The product is not classified as an aspiration hazard.  
**Reproductive toxicity:** The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
titanium dioxide	10000.00mg/kg Rat		
formaldehyde 100 %	>200.00mg/kg Rat		
propane-1,2-diol	22000.00mg/kg Rat	>2000.00mg/kg Rabbit	
Iron(1+), chloro[dimethyl 9,9-dihydroxy-3-methyl-2,4-di(2-pyridinyl-kN)-7-[(2-pyridinyl-kN)methyl]-3,7-diazabicyclo-3.3.1]nonane-1,5-dicarboxylate-kN3,kN7]-, chloride	>200.00mg/kg Rat	>2000.00mg/kg Rat	

#### 11.2 Information on other hazards

Information on other hazards      None known.

## Section 12: Ecological information

### 12.1 Toxicity

**Acute toxicity - Fish**      No information available as testing has not been completed.  
**Acute toxicity - Aquatic invertebrates**      No information available as testing has not been completed.  
**Acute toxicity - Aquatic plants**      No information available as testing has not been completed.  
**Acute toxicity - Microorganisms**      No information available as testing has not been completed.  
**Chronic toxicity - Fish**      No information available as testing has not been completed.  
**Chronic toxicity - Aquatic invertebrates**      No information available as testing has not been completed.  
**Chronic toxicity - Aquatic plants**      No information available as testing has not been completed.  
**Chronic toxicity - Microorganisms**      No information available as testing has not been completed.  
**Ecotoxicity**      The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.  
**Eco toxicological information**      Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

### 12.2 Persistence and degradability

**Degradability**      The degradability of the product has not been stated.  
**Biological oxygen demand**      No information available as testing has not been completed.  
**Chemical oxygen demand**      No information available as testing has not been completed.

### 12.3 Bioaccumulative potential

**Bioaccumulative potential**      No data available on bioaccumulation.  
**Bioaccumulation factor**      No information available as testing has not been completed.  
**Partition coefficient; n-Octanol/Water**      No information available as testing has not been completed.

### 12.4 Mobility in soil

**Mobility**      Partially soluble in cold water.

### 12.5 Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment**      The product does not contain any PBT or vPvB Substances.

### 12.6 Endocrine disrupting properties

**Endocrine disrupting properties**      The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%.

### 12.7 Other adverse effects

**Other adverse effects**      None known.

Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
propane-1,2-diol	LC50 96 Hours 40613.00mg/l Onchorhynchus mykiss (Rainbow Trout)		
Iron(1+), chloro[dimethyl 9,9-dihydroxy-3-methyl-2,4-di(2-pyridinyl-kN)-7-[(2-pyridinyl-kN)methyl]-3,7-diazabicyclo-3.3.1]nonane-1,5-dicarboxylate-kN3,kN7]-, chloride	LC50 96 Hours >100.00mg/l Brachydanio rerio (Zebra Fish)	EC50 48 Hours 23.70mg/l Daphnia magna	

**Section 13: Disposal considerations**

<b>Waste management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
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**13.1 Waste treatment methods**

<b>Disposal methods</b>	Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations. For waste disposal, use a licensed industrial waste disposal agent.
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**Section 14: Transport information****14.1 UN number or ID number**

<b>UN no. (ADR)</b>	Not applicable.
<b>UN no. (IMDG)</b>	Not applicable.
<b>UN no. (IATA)</b>	Not applicable.

**14.2 UN proper shipping name**

<b>ADR proper shipping name</b>	Not applicable.
<b>IMDG proper shipping name</b>	Not applicable.
<b>IATA proper shipping name</b>	Not applicable.

**14.3 Transport hazard class(es)**

<b>ADR class</b>	Not applicable.
<b>IMDG class</b>	Not applicable.
<b>IATA class</b>	Not applicable.

<b>Transport labels</b>	Not applicable
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**14.4 Packing group**

<b>ADR/RID/ADN packing group</b>	Not applicable.
<b>IMDG packing group</b>	Not applicable.
<b>IATA packing group</b>	Not applicable.

**14.5 Environmental hazards**

<b>ADR</b>	No
<b>IMDG</b>	No
<b>IATA</b>	No

**14.6 Special precautions for user**

<b>EMS</b>	Not applicable.
<b>Emergency action code</b>	Not applicable.
<b>Hazard no. (ADR)</b>	Not applicable.
<b>Tunnel restriction code</b>	Not applicable.

**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**

<b>EU legislation</b>	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 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
<b>Approved code of practice</b>	2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)



**15.2 Chemical safety assessment**

<b>Chemical safety assessment</b>	No chemical safety assessment has been carried out.
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**Section 16: Other information**

<b>General information</b>	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
<b>Revision comments</b>	This is a first issue.
<b>Revision date</b>	27 August 2021
<b>Revision</b>	1
<b>Safety data sheet status</b>	Approved.

**Hazard statements in full**

<b>H301</b>	Toxic if swallowed.
<b>H317</b>	May cause an allergic skin reaction.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure .
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H335</b>	May cause respiratory irritation.
<b>H400</b>	Very toxic to aquatic life.
<b>H311</b>	Toxic in contact with skin.
<b>H331</b>	Toxic if inhaled.
<b>H341</b>	Suspected of causing genetic defects .
<b>H350</b>	May cause cancer .
<b>H310</b>	Fatal in contact with skin.
<b>H318</b>	Causes serious eye damage.
<b>H330</b>	Fatal if inhaled.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>EUH071</b>	Corrosive to the respiratory tract.
<b>EUH208</b>	Contains Iron(1+), chloro[dimethyl 9,9-dihydroxy-3-methyl-2,4-di(2-pyridinyl--N)-7-[(2-pyridinyl-kN)methyl]-3,7-diazabicyclo[3.3.1]nonane-1,5-dicarboxylate-kN3,kN7]-, chloride. May produce an allergic reaction.
<b>EUH211</b>	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.