Product	Acrylic Polyurethane Satinwood
Revision date	11 September 2020
Revision	2

Safety Data Sheet (SDS)

according to Regulation (EC) No. 1907/2006

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

1.1 Product identifier

Product name **Acrylic Polyurethane Satinwood**
Synonyms, Trade names No information available.

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

Identified uses This is a waterborne, acrylic resin/polyurethane based paint for interior and exterior use on suitably primed wood and metal surfaces.
Uses advised against No uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

Supplier
Castle Paints Ltd
Cloncollig Industrial Estate
Tullamore
Offaly
R35 X993
Ireland
Tel: 353 (0)579351583
Contact person info@castlepaints.ie

1.4 Emergency telephone number

Emergency telephone Emergency medical information: 8am - 10pm (Seven Days) contact National Poison Center,Beaumont Hospital. Telephone: +353 (0) 18092166

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and chemical hazards	Not classified
Human health	Skin. Sens 1 A- H317
Environment	Aquatic Chronic 3 - H412

2.2 Label elements

Contains 1,2-benzisothiazol-3(2H)-one 1,2-benzisothiazolin-3-one
2-methyl-2H-isothiazol-3-one

Label in accordance with (EC) no. 1272/2008

Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements **Prevention**
P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.
P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/eye protection/face protection.
Response
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P363 Wash contaminated clothing before reuse.
Disposal
P501 Dispose of contents/ container to a licensed hazardous waste disposal facility in accordance with all applicable local regulations.

2.3 Other hazards

None known.

Section 3: Composition/identification of 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.: 01-2119489379-17-0046		10-20%
2-(2-butoxyethoxy)ethanol	CAS-No.: 112-34-5 EC No.: 203-961-6 REACH Reg No.: 01-2119475104-44-XXXX	Eye Irrit.2A - H319	0.1-0.9%
triethylamine	CAS-No.: 121-44-8 EC No.: 204-469-4 REACH Reg No.: 01-2119475467-26-XXXX	Acute Tox 4 - H302, Acute Tox 3 - H311, Acute Tox 3 - H331, Skin Corr. 1A - H314, Eye Dam. 1 - H318, Flam. Liq 2- H225, STOT SE 3 - H335	0.1-0.9%
Kaolin	CAS-No.: 1332-58-7 EC No.: 310-194-1		<0.1%
1,2-benzisothiazol-3(2H)-one 1,2-benzisothiazolin-3-one	CAS-No.: 2634-33-5 EC No.: 220-120-9	Acute Tox 4 - H302, Skin Irrit.2 - H315, Skin. Sens 1 - H317, Eye Dam. 1 - H318, Aquatic Acute 1 - H400	<0.1%
2-methyl-2H-isothiazol-3-one	CAS-No.: 2682-20-4 EC No.: 220-239-6	Acute Tox 3 - H301, Acute Tox 3 - H311, Skin Corr. 1B - H314, Skin. Sens 1 - H317, Eye Dam. 1 - H318, STOT SE 3 - H335, Aquatic Acute 1 - H400	<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.

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 eyelids 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 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.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media High volume water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products When heated, vapours/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. Ensure adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Read and follow manufacturer's recommendations. Wash hands after contact.

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. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

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.

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.

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).

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) The identified uses for this product are detailed in Section 1.

Usage description Use only according to directions. Replace and tighten cap after use.

Section 8: Exposure controls/Personal protection

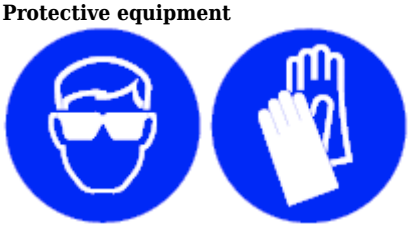
8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
titanium dioxide	OEL		10 mg/m^3			
titanium dioxide	OEL		4 mg/m^3			
titanium dioxide	WEL		10 inhalable aerosol mg/m^3			
titanium dioxide	WEL		4 respirable aerosol mg/m^3			
2-(2-butoxyethoxy)ethanol	WEL	10 ppm	67,5 mg/m^3	15 ppm	101,2 mg/m^3	
2-(2-butoxyethoxy)ethanol	OEL	10 ppm	67.5 mg/m^3	12 ppm	101.2 mg/m^3	IOELV
triethylamine	OEL	2 ppm	8.4 mg/m^3	3 ppm	12.6 mg/m^3	Sk, IOELV
triethylamine	WEL	2 ppm	8 mg/m^3	4 ppm	17 mg/m^3	Sk
Kaolin	OEL		2 mg/m^3			
Kaolin	WEL		2 respirable aerosol mg/m^3			

Ingredient comments Ireland, Occupational Exposure Limits 2020.
Workplace Exposure Limits Guidance Note EH40/2005.

8.2 Exposure Controls

Protective equipment



Engineering measures Observe occupational exposure limits and minimize the risk of inhalation of dust.

Respiratory equipment Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose/combination (vapour/particulate) respirator cartridges as a backup to engineering controls. Respirator with a vapour filter (EN 141).

Hand protection Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. Consult manufacturer for specific advice. Suggested material: Nitrile rubber gloves. Minimum layer thickness: 0.11 mm. Minimum breakthrough time / gloves: 480 min. Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Eye protection Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

Other protection Wear appropriate clothing to prevent any possibility of skin contact. 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	Liquid.
Colour	Various.
Odour	Barely Perceptible 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.
pH-Value, Conc. Solution	8.50
pH-Value, Diluted solution	No information available as testing has not been completed.
Melting point	May start to solidify at the following temperature: 0 °C (32 °F), based on the quantity of water in the product.
Initial boiling point and boiling range	> 38 °C.
Flash point	Not applicable.
Evaporation rate	No information available as testing has not been completed.
Flammability state	No information available as testing has not been completed.
Flammability limit - lower(%)	No information available as testing has not been completed.
Flammability limit - upper(%)	No information available as testing has not been completed.
Vapour pressure	No information available as testing has not been completed.
Vapour density (air=1)	No information available as testing has not been completed.
Relative density	1.28
Bulk density	No information available as testing has not been completed.
Solubility	Partially soluble in cold water.
Decomposition temperature	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	No information available as testing has not been completed.
Auto ignition temperature (°C)	No information available as testing has not been completed.
Viscosity	Dynamic (20 °C) 2,800 cP; Kinematic (40 °C) > 0.21 cm^2/sec.
Explosive properties	Not classified as explosive.
Oxidising properties	The product does not meet the criteria to be classified as oxidising.

9.2 Other information

Molecular weight	No information available as testing has not been completed.
Volatile organic compound	EU limit value for this product (A/d): 130 g/l (2010). This product contains a maximum of 130 g/l.
Other information	None noted.

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity	Reactions may occur with strong oxidising agents.

10.2 Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Hazardous reactions	For information on hazardous reactions see section 10.1.
Hazardous polymerisation	Unknown.
Polymerisation description	Unknown.

10.4 Conditions to Avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid extremes of temperature.

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	Oxides of carbon.

Section 11: Toxicological information

11.1 Information on toxicological effects

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	May cause temporary eye irritation.
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 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	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	Eyes, skin, digestive system, respiratory system.
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
triethylamine	730.00mg/kg Rat	580.00mg/kg Rabbit	
1,2-benzisothiazol-3(2H)-one 1,2-benzisothiazolin-3-one	1193.00mg/kg Rat 1150.00mg/kg Mouse 597.00mg/kg Rat	4115.00mg/kg Rat >2000.00mg/kg Rat	
2-methyl-2H-isothiazol-3-one	200.00mg/kg Rat	2000.00mg/kg Rat	0.53mg/l (dust/mist) Rat 4 Hours
2-(2-butoxyethoxy)ethanol	3305.00mg/kg Rat	2764.00mg/kg Rabbit	

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 contains a substance which is harmful to aquatic life with long lasting effects.
Eco toxilogical information The product contains a substance which is harmful to aquatic organisms.

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 Other adverse effects

Other adverse effects None known.

Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
triethylamine	LC50 96 Hours 24.00mg/l Oryzias latipes (Red Killifish)	LC50 48 Hours 17.00mg/l Daphnia magna	
1,2-benzisothiazol-3(2H)-one 1,2-benzisothiazolin-3-one	LC50 96 Hours 2.18mg/l Onchorhynchus mykiss (Rainbow Trout)LC50 96 Hours 0.74mg/l	EC50 48 Hours 2.94mg/l Daphnia magnaEC50 48 Hours 2.44mg/l Daphnia magna	
2-(2-butoxyethoxy)ethanol	LC50 96 Hours 1300.00mg/l Lepomis macrochirus (Bluegill)	EC50 48 Hours >100.00mg/l Daphnia magna	96 Hours >100.00mg/l Scenedesmus Subspicatus

Section 13: Disposal considerations

Waste management When handling waste, consideration should be made to the safety precautions applying to

handling of the product.

13.1 Waste treatment methods

Disposal methods 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.

Section 14: Transport information

14.1 UN number

UN no. (ADR) Not applicable.
UN no. (IMDG) Not applicable.
UN no. (IATA) Not applicable.

14.2 UN proper shipping name

ADR proper shipping name Not applicable.
IMDG proper shipping name Not applicable.
IATA proper shipping name Not applicable.

14.3 Transport hazard class(es)

ADR class Not applicable.
IMDG class Not applicable.
IATA class Not applicable.

Transport labels Not applicable

14.4 Packing group

ADR/RID/ADN packing group Not applicable.
IMDG packing group Not applicable.
IATA packing group Not applicable.

14.5 Environmental hazards

ADR No
IMDG No
IATA No

14.6 Special precautions for user

EMS Not applicable.
Emergency action code Not applicable.
Hazard no. (ADR) Not applicable.
Tunnel restriction code Not applicable.

14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code

Section 15: Regulatory information

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

EU legislation 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. Commission Regulation (EU) 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Approved code of practice 2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

Workplace Exposure Limits Guidance Note EH40/2005.

Chemical safety assessment No chemical safety assessment has been carried out.

Section 16: Other information

General information	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
Revision comments	This is a second issue. [2]Information updated. [3]Information updated. [4]Information updated. [5]Information updated. [6]Information updated. [8]Information updated. [10]Information updated. [11]Information updated. [12]Information updated. [15]Information updated.
Revision date	11 September 2020
Supersedes date	11 November 2019
Revision	2
Safety data sheet status	Approved.

Hazard statements in full

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H412	Harmful to aquatic life with long lasting effects.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H317	May cause an allergic skin reaction.
H372	Causes damage to organs through prolonged or repeated exposure .
H301	Toxic if swallowed.

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.