Product	Undercoat (Traditional Oil-based)
Revision date	07 April 2021
Revision	1

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 **Undercoat (Traditional Oil-based)**
Other means of identification No information available.

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

Identified uses A solvent based flat sheen undercoat for use on interior and exterior wood and metals. For consumer and professional use.
Uses advised against Any other purpose.

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	Flam. Liq 3- H226
Human health	STOT SE 3 - H336
Environment	Not classified

2.2 Label elements

Contains Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

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

Signal word Warning

Hazard statements
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

Precautionary statements

Prevention
P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.
P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.
P271 Use only outdoors or in a well-ventilated area.

Response
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P370 + P378 In case of fire: Use foam, dry powder, carbon dioxide (CO2), or water spray for extinction.
Storage
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
Disposal
P501 Dispose of contents/ container to a licensed hazardous waste disposal facility in accordance with all applicable regulations.

EUH statements EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

None known.

Section 3: Composition/information on ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product identifier	Regulation (EC) No 1272/2008	%
Limestone	CAS-No.: 1317-65-3 EC No.: 215-279-6		15-20%
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS-No.: 64742-48-9 EC No.: 919-857-5 REACH Reg No.: 01-2119463258-33-xxxx	STOT SE 3 - H336, Asp. Tox - H304, Flam. Liq 3- H226	40-45%
titanium dioxide	CAS-No.: 13463-67-7 EC No.: 236-675-5 REACH Reg No.: 01-2119489379-17-0046		2-5%
2-ethylhexanoic acid, zirconium salt	CAS-No.: 22464-99-9 EC No.: 245-018-1	Repr. 2 - H361d	0.1-0.9%
butanone oxime	CAS-No.: 96-29-7 EC No.: 202-496-6 REACH Reg No.: 01-2119539477-28-XXXX	Acute Tox 4 - H312, Eye Dam. 1 - H318, Skin. Sens 1 - H317, Carc. 2 - H351	0.1-0.9%
Cobalt bis(2-ethylhexanoate)	CAS-No.: 136-52-7 EC No.: 205-250-6 REACH Reg No.: 01-2119524678-29-XXXX	Eye Irrit.2A - H319, Skin. Sens 1 A- H317, Repr. 1B- H360, Aquatic Acute 1 - H400, Aquatic Chronic 3 - H412	0.01-0.099%
calcium carbonate	CAS-No.: 471-34-1 EC No.: 207-439-9 REACH Reg No.: 01-2119486795-18-XXXX		0.01-0.099%
Quartz (SiO2)	CAS-No.: 14808-60-7 EC No.: 238-878-4		0.01-0.09%
propionic acid	CAS-No.: 79-09-4 EC No.: 201-176-3 REACH Reg No.: 01-2119486971-24-XXXX	Skin Corr. 1B - H314	0.001-0.009%

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.
Cobalt bis(2-ethylhexanoate): M (acute) = 1.
Propionic acid: Specific Concentration limits - Eye Irrit. 2; H319: 10 % to < 25 %; STOT SE 3; H335: 10 %; Skin Corr. 1B; H314: 25 %; Skin Irrit. 2; H315: 10 % to < 25 %.
Butanone oxime: Acute Toxicity Estimates (ATE)- dermal: ATE = 1100 mg/kg (-) oral: ATE = 100 mg/kg (-).

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. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.
Inhalation	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Ingestion	Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head low and/or keep airway clear. Seek medical advice (show the label where possible).
Skin contact	If this product contacts the skin, immediately flush the affected area with plenty of clean running water for at least fifteen (15) minutes. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing.
Eye contact	Do not rub eye. Avoid contaminating unaffected eye. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Remove contact lenses if present and easy to do so. 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	Vapors may cause drowsiness and dizziness.
Ingestion	May cause discomfort if swallowed. Ingestion may cause symptoms similar to those listed under inhalation.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
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: Firefighting measures

5.1 Extinguishing media

Extinguishing media	Foam, dry powder, carbon dioxide (CO_2), water spray. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	Combustion products may include and are not limited to: Oxides of carbon. In case of fire toxic gases can be released.
Unusual fire & explosion hazards	Flammable liquid and vapour. Flammable vapours may spread to sources of ignition or accumulate in confined spaces. Runoff to sewer may create fire or explosion hazard. Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapours may form explosive mixture with air.
Specific hazards	Vapours may be ignited by a spark, a hot surface or an ember.

5.3 Advice for firefighters

Special fire fighting procedures	Keep up-wind to avoid fumes. Avoid breathing fire vapours. Ventilate closed spaces before entering them. If possible, fight fire from protected position. 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. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Eliminate all sources of ignition.

Avoid inhalation of vapours and contact with skin and eyes. If necessary evacuate surrounding areas. Read and follow manufacturer's recommendations.

For emergency responders Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions Do not discharge into drains, water courses or onto the ground. Prevent material from entering sewers, waterways, or low areas.

6.3 Methods and material for containment and cleaning up

Spill clean up methods Ventilate and evacuate the area. Eliminate all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Stop leak if possible without risk. Cover drains. Use non sparking tools or equipment for clean up.
Absorb spillage with non-combustible, absorbent material - sand. In case of a large scale of spill, dyke area with sand to stop the spill spreading. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Flush with plenty of water to clean spillage area.

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 Use proper personal protection when handling (refer to Section 8). Keep away from heat, sparks and open flame. Provide good ventilation. Avoid inhalation of vapours and contact with skin and eyes. Avoid prolonged or repeated contact.
Do not wear contact lenses. Do not mix with other chemicals. Do not eat, drink or smoke when using the product. Ground equipment and use explosion-proof electrical equipment. Read and follow manufacturer's recommendations.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from heat, sparks and open flame. Avoid contact with oxidising agents. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep locked up and out of reach of children.

Storage class Flammable liquid storage.

7.3 Specific end use(s)

Specific end use(s) The identified uses are in section 1 of this Safety Data Sheet.

Usage description Use only according to directions. Keep container tightly closed and sealed when not in use.

Section 8: Exposure controls/Personal protection

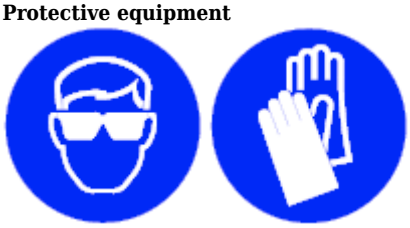
8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
Limestone	OEL		10 mg/m^3			Total inhalable dust.
Limestone	OEL		4 mg/m^3			Respirable dust
titanium dioxide	OEL		10 mg/m^3			Total inhalable dust.
titanium dioxide	OEL		4 mg/m^3			Respirable dust.
butanone oxime	OEL	3 ppm	10 mg/m^3	10 ppm	33 mg/m^3	Sens.
Quartz (SiO2)	OEL		0.1 mg/m^3			Respirable dust, BOELV.
propionic acid	OEL	10 ppm	31 mg/m^3	20 ppm	62 mg/m^3	IOELV.

Ingredient comments Ireland, Occupational Exposure Limits 2020.

8.2 Exposure Controls

Protective equipment



Engineering measures	Provide adequate ventilation, including appropriate local extraction. Where necessary use lighting and electrical equipment designed for use in atmospheres where flammable vapours are present, and which can direct static electricity by grounding equipment.
Respiratory equipment	Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143, and suitable respirator cartridges as a backup to engineering controls. Suggested filter type: Multi-purpose (combination) ABEK (EN 14387) respirator cartridges. Consult manufacturer for specific advice. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).
Hand protection	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Suggested material: (Suggested suitable materials for longer, direct contact or splash contact) Nitrile rubber. Layer thickness: 0.4 mm. Breakthrough time: >480 minutes. Consult manufacturer for specific advice. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. 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. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist. The selected clothing must satisfy the European norm standard EN 943.
Hygiene measures	DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated.
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	Faint hydrocarbon 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	No information available as testing has not been completed.
pH-Value, Diluted solution	Not applicable - insoluble in water.
Melting point	No information available as testing has not been completed.
Initial boiling point and boiling range	130.00 - 213.00 °C
Flash point	> 36.00 °C
Evaporation rate	No information available as testing has not been completed.
Flammability state	Flammable liquid and vapour.
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	1.52g/cm^3 @ 20.00 °C
Bulk density	Not applicable as the product is a liquid.
Solubility	Insoluble 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)	> 200 °C
Viscosity	Dynamic: 1150 cP @ 20°C; Kinematic: > 20.5mm^2/s@ 40°C.
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	The product is a mixture, molecular weight data is not required.
Volatile organic compound	EU limit for this product (Cat A/d) (2010) is 300 g/l. Product contains max. 300 g/l.
Other information	None noted.

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity	Stable under recommended transport and storage conditions and under recommended use. See section 10.3 for further information.

10.2 Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Hazardous reactions	Flammable liquid and vapour. Vapours may form explosive mixture with air.
Hazardous polymerisation	No information available for the mixture as testing has not been completed.
Polymerisation description	No information available for the mixture as testing has not been completed.

10.4 Conditions to Avoid

Conditions to avoid	Heat, sparks, flames and other sources of ignition.

10.5 Incompatible materials

Materials to avoid	Avoid strong oxidising agents, bases, strong acids. Do not mix with other chemicals unless listed on directions.

10.6 Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Section 11: Toxicological information

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

Toxicological information Not classified based on available information.

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 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 Vapors may cause drowsiness and dizziness.
Ingestion May cause discomfort if swallowed. Ingestion may cause symptoms similar to those listed under inhalation.
Skin contact Prolonged contact may cause redness, irritation and dry skin.
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. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Routes of entry Eye and skin contact, ingestion or inhalation.
Target organs Central nervous system. 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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	>5000.00mg/kg Rat	>5000.00mg/kg Rabbit	>5.00mg/l (vapours) Rat 4 Hours
propionic acid	2600.00mg/kg Rat	525.00mg/kg Rabbit	>4.90g/m3 Rat 4 Hours
2-ethylhexanoic acid, zirconium salt	>5.00g/kg Rat	>5.00g/kg Rabbit	

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 toxilogical information No ecological toxicity available on the overall finished product.

12.2 Persistence and degradability

Degradability No information available as testing has not been completed.
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 information available as testing has not been completed.
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 The product is insoluble in 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)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	LC50 96 Hours >100.00ppm Freshwater Fish	LC50 48 Hours >100.00mg/l Daphnia magna	> 100.00mg/l Scenedesmus Subspicatus
propionic acid	LC50 96 Hours 51.00ppm Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours 22.70ppm Daphnia magna	
butanone oxime	LC50 96 Hours 48.00mg/l Freshwater Fish	LC50 48 Hours 750.00mg/l Daphnia magna	
Limestone	LC50 96 Hours >10000.00mg/l Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours >1000.00mg/l Daphnia magna	EC50 72 Hours >200.00mg/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. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

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 or ID number

UN no. (ADR) UN1263
UN no. (IMDG) UN1263
UN no. (IATA) UN1263

14.2 UN proper shipping name

ADR proper shipping name	PAINT
IMDG proper shipping name	PAINT
IATA proper shipping name	PAINT

14.3 Transport hazard class(es)

ADR class	3
IMDG class	3
IATA class	3

Transport labels

14.4 Packing group

ADR/RID/ADN packing group	III
IMDG packing group	III
IATA packing group	III

14.5 Environmental hazards

ADR	No
IMDG	No
IATA	No

14.6 Special precautions for user

EMS	F-E, S-E
Emergency action code	A3 A72 A192
Hazard no. (ADR)	<none>
Tunnel restriction code	(E)

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 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. 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).
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)

15.2 Chemical safety assessment

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 Annex II, (EC) No 2020/878. 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)
Revision comments	This is a first issue.

Revision date	07 April 2021
Revision	1
Safety data sheet status	Approved.

Hazard statements in full

EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child .
H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer .
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child .
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
H314	Causes severe skin burns and eye damage.

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. Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.