

Project:	Health Based Building™ Magnum® board
Substrate:	Magnum® Board (Magnesium Oxide Board)
Interior/Exterior:	Exterior
Finish:	Wattyl Solagard® Low Sheen

Product Description
Wattyl Solagard Low Sheen is a tough and durable exterior paint which offers protection for your home in any weather or climate. Solagard's Total Protection Technology is designed to keep your home looking better for longer. Solagard Low Sheen's gloss level provides the best balance between appearance, dirt resistance and flexibility for greater protection.

Surface Preparation
Ensure the substrate is clean and free from dirt, grease, dust, mould, other contaminants or loose material that may interfere with adhesion. Ensure all sheets are installed as per the manufacturer's specification and installation instructions.
Fill any screw holes, cracks, etc., with an appropriate exterior grade filler, sand and remove dust according to manufacturer's instructions.

Coatings System				
	1 st Coat	2 nd Coat	3 rd Coat	4 th Coat(Optional)
	Wattyl GranoPrime®	Wattyl Solagard® Low Sheen	Wattyl Solagard® Low Sheen	Wattyl Solagard® Low Sheen
Technical Data Sheet	G1.02	D4.14	D4.14	D4.14
A.P.A.S. Specification	-	APAS 0280/3 & 0280/5	APAS 0280/3 & 0280/5	APAS 0280/3 & 0280/5
Australian Standard	-	AS3730.8	AS3730.8	AS3730.8
Application Method	Brush, roller, spray(backroll)	Brush, roller, spray	Brush, roller, spray	Brush, roller, spray
Thinners/Clean-up	Water	Water	Water	Water
Spreading Rate	12.5 m ² /litre	16 m ² /litre	16 m ² /litre	16 m ² /litre
Dry Film Thickness	20 microns	24 microns	24 microns	24 microns
Recoat	2-6 hours	2 hours	2 hours	2 hours

Additional Notes
Upon colour selection, to ensure optimum colour match/coverage, the potential use of a tinted undercoat may be required. Alternatively, an additional topcoat might be required. To confirm any colour requirements, contact Wattyl Assist on 132 101. This specification is based on tests carried out on samples supplied. If the condition of the substrate is different, retesting is required to confirm the specification.
This specification is for non-recessed board. If a recessed board requiring jointing compound is in use, please refer to Wattyl for the appropriate Granosite system.
Caution: Provide adequate ventilation during use.
Application should not be carried out if the air temperature or the substrate temperature is below 10°C or above 35°C. The temperature must not fall below 10°C during the drying process. Leave seven days after application of final coat before washing. When subject to steam or condensation, water-based paints may develop a stain, which can be removed with a damp cloth. Avoid exposure to excessive steam or condensation for 48 hours after application of the final coat.

REFER TO PRODUCT TECHNICAL DATA SHEETS AND SAFETY DATA SHEETS FOR FURTHER INFORMATION ON THE PRODUCTS MENTIONED IN THIS SPECIFICATION SHEET

- This information is provided with respect to the listed products. Please (a) Review the Technical Data Sheet and Safety Data Sheet before you use or handle the product; (b) Transport, handle and use the product in accordance with the relevant TDS, SDS and instructions; and (c) Thoroughly test the product on a sample of intended substrate, before using the product.
- While we try to maintain the accuracy of this information, we cannot guarantee that the information is wholly comprehensive. Please conduct such additional investigations as may be necessary to satisfy yourself of the accuracy, currency and comprehensiveness of the information on which you rely before using the product, or contact us if you require further information.
- If you are not a Consumer as defined by Australian Consumer Law, we are not liable for breach of any warranty, term, condition, guarantee or similar, or any loss or damage including any special, incidental or consequential damages suffered by you, to the full extent permitted by law. Our liability is limited, at our option, to the replacement of nonconforming product or a refund of the product purchase price. These limitations do not apply to you if the product was acquired by you as a Consumer under the Australian Consumer Law. A person who buys a good in trade or commerce for the purpose of re-supply; to use them up or transform the goods in the course of a process of production or manufacture; or in the course of repairing or treating other goods or fixtures on land, has not acquired the good as a consumer under the Australian Consumer Law. If you are a Consumer as defined by the Australian Consumer Law, and you are buying goods which are not ordinarily acquired for personal, domestic or household use or consumption our liability for breach of any warranty, term, condition, guarantee or similar, is limited to the full extent permitted by law, at our option, to the replacement of the product or a refund of the product purchase price.

Project:

Health Based Building™ Magnum® board

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Granosite®,

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VERSION 1
June 2022

TEXTURE SOLUTIONS
GRANOPRIME

RESOURCE CODE 852001

SEPTEMBER 2021

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Description & Uses

GranoPrime is an acrylic primer sealer. GranoPrime can be applied by brush, roller or spray, prior to the application of most of the Wattyl Granosite texture systems. GranoPrime ensures the optimum performance of the complete coating system by stabilising irregularities in substrate adsorption and mechanical strength. On concrete, cement render and mortar joints, the use of GranoPrime minimises the threat of loss of adhesion or other problems that may arise due to the presence of residual alkali salts.

Features & Benefits

- Stabilises irregularities in substrate absorption and mechanical strength
- Speeds the application, controls the drying and ensures strong adhesion of topcoats to the substrate
- Minimises the threat of loss of adhesion or other problems that may arise due to presence of residual alkali salts
- As an acrylic, not subject to the degradation that can occur with polyvinyl acetates (PVAs) in an alkaline environment

Colours

Off-White.

Do not tint GranoPrime.

Properties & Performance Guide

Dry & Recoat Times	Surface Dry - 2 hours Recoat - 2-6 hours Topcoat - Within 14 days of application Figures are quoted at 25°C and at 50% humidity. Drying will take longer at lower temperatures or higher relative humidity.
Density	1.3 Kg/L.
Consistency	Milky liquid.
Coverage	0.08 L/M ² (12.5M ² /L).
Wet Film Thickness Dry Film Thickness	80 microns (approx). 20 microns (approx).

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GRANOPRIME

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Properties & Performance Guide...Continued

Thinning	High Absorption Substrates Medium Absorption Substrates Low Absorption Substrates	Mix 1 part GranoPrime with 1 part water Mix 2 parts GranoPrime with 1 part water Use GranoPrime undiluted
Clean Up	Clean up with cold water away from drains. Protect Our Environment: Do not pour leftover paint down the drain. Unwanted paint should be kept in a sealed container, and then disposed of via special waste collection services. Empty paint containers should be left open in a well ventilated area to dry out. Disposal of empty paint containers may differ between local authorities. Check with your local council first.	
VOC (Volatile Organic Compounds)	VOC < 10g/L.	

Recommended Substrate Conditions & Preparation

Surfaces are to be suitably prepared in accordance with proper trade practices.

High Absorption Substrates: Concrete block, Calsil® brick, autoclaved aerated concrete (AAC).

Medium Absorption Substrates: Off-form concrete under 40 MPa, cement render, ExoTec®, CFC, fibre cement sheeting, coloured renders, lime washes, GranoRender Coarse (G1.18), GranoRender PM Medium (G1.25), GranoRender Sponge Fine Finish (G1.17), GranoReady Render (G1.12), GranoSponge Fine Acrylic (G1.21), GranoPatch Smooth (G1.04), GranoPatch Spackle (G1.05), GranoFlex (G1.15).

Low Absorption Substrates: Previously painted surfaces, off-form concrete over 40 MPa, high density bricks.

GranoPrime is **not suitable** for application to steel or timber surfaces.

GranoPrime may be used as part of the GranoRoof system for properly cleaned concrete roof tiles.

Surface preparation is the responsibility of the Builder, Renovator or Main Contractor and the Applicator. To achieve the indicated performance, application must be carried out according to Wattyl's recommendations.

Ensure the surface is clean and dry. All substrates must be free of dirt, dust, grease, oil, mould release agents, bondbreakers and any other contaminants that may interfere with adhesion.

Fresh cementitious substrates should be left for 14-28 days before coating. There must be less than 15% moisture content in the surface at the time of coating to ensure optimum coating performance.

For specific substrate preparation, see relevant specification sheets.

Application Guide

Stir contents thoroughly with a power stirrer before use.

Apply one coat to a correctly prepared surface by brush, roller or spray.

AIRLESS GUN SETTINGS: Tip 519 or 521. Pressure Setting 1500-2000psi.

Freshly applied material must be protected from frosts and rain for a minimum of forty-eight (48) hours.

Application **should not** be carried out if the air temperature or the substrate temperature is below 10°C or above 35°C or when humidity is very high. The temperature must not fall below 10°C during the drying process.

In exterior application avoid painting when dew or rain is likely.

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Additional Data

Available in 15 litre containers.

Not suitable for walk-on surfaces.

GranoPrime is a surface preparation product and is used in conjunction with various Wattyl Granosite systems. As such, it is not a system in itself and should only be used where specified.

Note: The approved Wattyl Granosite system should be applied to GranoPrime within 14 days of curing and the GranoPrime should be protected from rain and frost for this period.

Leave 7 days after application of final coat before washing. Wash using a sponge or soft cloth with warm water and mild detergent. Avoid harsh scrubbing and strong household cleaners.

Containers must be secured and stored upright during transit.

Containers must not be exposed to excessive heat or cold.

Storage must be under cover, away from direct heat, freezing and moisture, in well-sealed containers.

It is recommended that application be carried out by a skilled applicator, who is totally conversant with the Granosite products and systems, to validate full material warranty conditions.

The use of proprietary additives other than those manufactured by Wattyl is not recommended.

Do not use for any other purpose other than as specified in our literature.

Safety Data

First Aid Instructions	<p>For advice, contact the Poisons Information Centre on 131 126 (Australia), 0800 764 766 (New Zealand), or a doctor.</p> <p>If swallowed, do not induce vomiting. Give a glass of water to drink.</p> <p>If in eyes, wash out immediately with water.</p> <p>If inhaled remove from contaminated area to fresh air.</p> <p>If skin contact occurs, remove contaminated clothing and flush contaminated skin with water.</p>
Safety Directions	<p>Keep out of reach of children.</p> <p>Avoid contact with skin and eyes.</p> <p>Ensure adequate ventilation during use.</p> <p>Avoid prolonged breathing of vapour.</p> <p>Wash hands thoroughly after use.</p>
Further Information	<p>For the latest information refer to the Safety Data Sheet available on our websites.</p> <p>Australia: www.wattyl.com.au or contact Wattyl Assist on 132 101.</p> <p>New Zealand: www.wattyl.co.nz or contact Wattyl Assist on 0800 825 7727.</p>

1. This information is provided with respect to the listed Hempel (Wattyl) Australia and Hempel (Wattyl) New Zealand products. Hempel (Wattyl) Australia and Hempel (Wattyl) New Zealand, hereon referred to as "Hempel (Wattyl)," recommends that:

(a) You review the Technical Data Sheets (TDS) and Safety Data Sheets (SDS) before you use or handle the product; (b) the product be used only in accordance with the information provided by Hempel (Wattyl); (c) the product be transported and handled in accordance with the SDS and relevant TDS; and (d) you thoroughly test the product, using the recommended application method on a sample of intended substrate, before using the product.

2. The information in the TDS was prepared using information gathered during product development. While Hempel (Wattyl) endeavour to update this information and maintain the accuracy of its contents, Hempel (Wattyl) cannot guarantee that the information is wholly comprehensive.

3. Hempel (Wattyl) recommend that you conduct such additional investigations as may be necessary to satisfy yourself of the accuracy, currency and comprehensiveness of the information on which you rely in using and handling the product. If you require further information please contact your nearest office of Hempel (Wattyl).

4. To the full extent permitted by law, the liability of Hempel (Wattyl) for breach of a condition or warranty implied into the contract for sale between Hempel (Wattyl) and you by law is limited at the election of Hempel (Wattyl) to: (a) the replacement of the product; or (b) payment of the cost of replacing the product.

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WATTYL ASSIST: Ph: 132 101 (AUSTRALIA)
Ph: 0800 825 7727 (NEW ZEALAND)

SAFETY DATA SHEET

GRANOPRIME

849405

Section 1. Identification

Product name : GRANOPRIME
Product type : Liquid.
Relevant identified uses of the substance or mixture and uses advised against
Manufacturer : VALSPAR PAINT (NZ) LIMITED
4-14 Patiki Road,
Avondale, Auckland, NZ 1026
Emergency telephone number (with hours of operation) : +(64)98010034
(Available 24 hrs/ 7 days)
e-mail address of person responsible for this SDS : sds@sherwin.com

Section 2. Hazards identification

HSNO Classification : AQUATIC HAZARD (LONG-TERM) - Category 3

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

GHS label elements

Signal word : None.
Hazard statements : Harmful to aquatic life with long lasting effects.

Precautionary statements

General : Read label before use. Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.
Prevention : Avoid release to the environment.
Response : Not applicable.
Storage : Not applicable.
Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification : Please refer to the SDS for additional information. Keep out of reach of children.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

CAS number/other identifiers

Product code : 849405

Ingredient name	% (w/w)	CAS number
Calcium Carbonate	25.1	1317-65-3
Titanium Dioxide	6.8	13463-67-7
Ethoxylated Alcohol	0.5	68154-97-2
Octylphenoxypoly(ethoxy)ethanol	0.4	9036-19-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Version : 8.01

Date of issue/Date of revision : 18, June, 2022
SHW-A4-AP-GHS-NZ

Section 3. Composition/information on ingredients

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin** : No specific data.
- Eyes** : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Specific treatments** : No specific treatment.
- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Section 5. Fire-fighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides
- Hazchem code** : Not available.
- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Calcium Carbonate	NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). WES-TWA: 10 mg/m ³ 8 hours.
Titanium Dioxide	NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). WES-TWA: 10 mg/m ³ 8 hours. Form: The value for inhalable dust containing no asbestos and less than 1% free silica.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : 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 before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
pH	: 8.5
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: 100°C (212°F)
Flash point	: Closed cup: 120°C (248°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 0.09 (butyl acetate = 1)
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.
Vapor pressure	: 2.3 kPa (17.5 mm Hg)
Relative vapor density	: 1 [Air = 1]
Relative density	: 1.3
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm ² /s (>20.5 cSt)

Aerosol product

Type of aerosol	: Not applicable.
Heat of combustion	: 0.495 kJ/g
Ignition distance	: Not applicable.
Enclosed space ignition - Time equivalent	: Not applicable.
Enclosed space ignition - Deflagration density	: Not applicable.
Flame height	: Not applicable.
Flame duration	: Not applicable.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on the likely routes of exposure

- Inhalation** : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : No specific data.
Ingestion : No specific data.
Skin contact : No specific data.
Eye contact : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Octylphenoxy poly(ethoxy) ethanol	LD50 Oral	Rat	4190 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Octylphenoxy poly(ethoxy) ethanol	Eyes - Mild irritant	Rabbit	-	15 mg	-
	Eyes - Severe irritant	Rabbit	-	1 %	-

Sensitization

Not available.

Potential chronic health effects

- General** : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Eye contact : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Chronic toxicity

Not available.

Carcinogenicity

Not available.

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Section 11. Toxicological information

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Ethoxylated octyl phenol	4190	N/A	N/A	N/A	N/A

Section 12. Ecological information

Ecotoxicity : This material is harmful to aquatic life with long lasting effects.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Octylphenoxypoly(ethoxy) ethanol	Acute EC50 210 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 8600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 7200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence/degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Marine Pollutant
New Zealand Class	Not regulated.	-	-	-		No.
ADG Class	Not regulated.	-	-	-		No.
UN Class	Not regulated.	-	-	-		No.
ADR/RID Class	Not regulated.	-	-	-		No.
IATA Class	Not regulated.	-	-	-		No.
IMDG Class	Not regulated.	-	-	-		Not a pollutant.

Additional information

New Zealand Class	-
ADG Class	-
UN Class	-
ADR/RID Class	-
IATA Class	-
IMDG Class	-

PG* : Packing group

NZ NZS 14 Hazchem Code : Not available.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

HSNO Approval Number : HSR002670

HSNO Group Standard : Surface coatings and colourants

HSNO Classification : AQUATIC HAZARD (LONG-TERM) - Category 3

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

Version : 8.01

Date of issue/Date of revision : 18, June, 2022
SHW-A4-AP-GHS-NZ

Section 15. Regulatory information

[UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

Section 16. Other information

[History](#)

Date of printing : 18, June, 2022.

Date of issue/Date of revision : 18, June, 2022

Date of previous issue : 27, May, 2022

Version : 8.01

Key to abbreviations : ADG = Australian Dangerous Goods
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
SGG = Segregation Group
UN = United Nations

References : Not available.

🔍 Indicates information that has changed from previously issued version.

[Notice to reader](#)

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

ULTRA PREMIUM
LOW SHEEN

RESOURCE CODE 1134-Line
AUGUST 2021
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Description & Uses

Watty Solagard Low Sheen is a tough and durable exterior paint which offers protection for your home in any weather or climate. Solagard's Total Protection Technology is designed to keep your home looking better for longer. Solagard Low Sheen's gloss level provides the best balance between appearance, dirt resistance and flexibility for greater protection. Watty Solagard Low Sheen is backed by a 25 year warranty against flaking, peeling and blistering*.

*For full details on the warranty refer to: www.wattyl.com.au or www.wattyl.co.nz.

Features & Benefits

- UV Blockout
- Lasting flexibility
- Resists chalking & fading
- Apply in temperatures as low as 5°C
- Inhibits mould and mildew
- Self priming

Colours & Gloss

White, Light, Mid and Strong bases; selected coloured bases and factory colours. Tint using Ecotint® to Watty Colour Designer® range of colours or other competitor colours. Can also be tinted at selected Watty Paint Centres with Hydrochroma® to achieve brighter, longer lasting Corporate colours.

Low Sheen (Gloss Level 10-20 at 60 degrees).

Environmental Data & Certifications



Approved to Australia Paint Approval Scheme Specification APAS 0280/3&5. Australian Standard AS3730.8.



Verified to the Environmental Choice New Zealand (ECNZ) Paint Specification EC-07-18. Watty (NZ) Limited License No 0709054.

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Properties & Performance Guide

Dry & Recoat Times	Surface Dry - 30 minutes Recoat - 2 hours Fully Cured - 7 days Figures are quoted at 25°C and at 50% humidity. Drying will take longer at lower temperatures or higher relative humidity.
Coverage per Coat	Up to 16 M ² /L depending on the surface texture, porosity and method of application.
Film Thickness	Wet Film Thickness (WFT) - 63 microns minimum Dry Film Thickness (DFT) - 24 microns minimum
Thinning	If applying in hot or windy weather or onto very porous surfaces, thin the first coat up to 10% with water.
Clean Up	Clean up with cold water away from drains. Protect Our Environment: Do not pour leftover paint down the drain. In Australia, to dispose of unwanted paint see paintback.com.au . In New Zealand, visit wattyl.co.nz for disposal details. Empty paint containers should be left open in a well ventilated area to dry out. When dry, recycle containers via recycling programs. Check with your local council first.
VOC (Volatile Organic Compounds)	VOC < 45g/Litre. The VOC level has been calculated theoretically from raw material information in accordance with APAS D181.

Recommended Substrate Conditions & Preparation

Surfaces are to be suitably prepared in accordance with proper trade practices.

All surfaces: Ensure surface is clean and dry, and free from chalking, loose friable material, dust, dirt and grease. All loose, peeling or flaking material must be removed. If required, sand the surface smooth and remove all dust. Sand any enamel painted surfaces until gloss is removed. Fill holes and cracks with a suitable filler, sand lightly to an even finish and remove all dust. If mould is present, clean surface with a suitable mould treatment as per manufacturer's instructions.

Previously painted surfaces: Ensure the existing surface is in sound condition by cutting a small X through the paint with a sharp blade. Apply adhesive tape over the X and tear it off. If the paint peels away the surface is unsound. Repeat at random in a number of areas. Unsound areas should be sanded or stripped back to bare. Sand enamel or glossy surfaces to remove gloss. Some primers used on pre-primed timbers are of poor quality. Unless a painting specification is supplied by the timber manufacturer, pre-primed timber should be sanded back to bare before coating to ensure durability.

New and bare timber (including Merbau, Kwila, Teak, Tallowood, Jarrah, Blackbutt, Cypress Pine, Vitek and other resinous hardwoods): For new and bare hardwood timber allow to weather for 4-6 weeks, rinsing with water several times to remove resins and open the grain to aid penetration. Remove mill glaze to allow penetration and adhesion.

New and bare LOSP treated pine: Weather for at least 2 weeks to ensure absorption and adhesion.

Bare cement render, brick, fibre cement and masonry: Ensure all new cement and concrete surfaces are fully cured prior to painting. Typically this may take a minimum of 4-6 weeks. Ensure concrete surfaces are free from any bond breakers, formwork release agents, curing compounds and efflorescence (white salts).

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Recommended Substrate Conditions & Preparation...Continued

New or weathered Colorbond® and Colorsteel®: Ensure surfaces are degreased, clean and free of salts or other deposits. New Colorbond® or Colorsteel® should be scoured with a nylon scourer if painting is required. Colorbond® and Colorsteel® surfaces, both new and weathered, should be primed with Water-Based Prep Galvanised Iron Primer or Killrust Etch Primer.

New galvanised iron sheet and Zinalume®: Allow new galvanised iron sheet to weather until dull, then wash down. Alternatively, thoroughly clean new galvanised iron sheets with a nylon scourer and detergent, then rinse. Treat rusted areas on old galvanised iron as for bare iron and steel. New Zinalume® surfaces should be degreased, clean and free of salts or other deposits. For improved adhesion, priming new galvanised iron sheet and new Zinalume® with Water-Based Prep Galvanised Iron Primer or Killrust Etch Primer is recommended.

Bare iron and steel: Remove all loose rust or mill scale by wire brushing, scraping or sanding. Where residual rust cannot be removed, apply Wattyl Killrust Rust-Eeter to this area only. Apply two coats of Wattyl Killrust Heavy Duty Primer or Wattyl Master Prep Metal Primer. Two coats of Solagard may be used to finish, however for longer lasting corrosion protection, a complete Killrust metal protection system is recommended.

Galvanised steel (structural/hot dip): Due to the possible variability in surfaces and exposure conditions, call Wattyl Assist to determine the most suitable preparation prior to painting.

For any substrates not listed please contact Wattyl Assist on 132 101 (Australia) or 0800 825 7727 (New Zealand).

Application Guide

Stir well before and during use with a broad paddle reaching to the bottom of the can and lifting until contents are completely mixed.

Apply full, even coats with brush, roller or spray. If applying in hot or windy weather or onto very porous surfaces, thin the first coat up to 10% with water.

Coat window frames sparingly in contact areas. To avoid sticking move windows within 30 minutes and again in the first 24 hours.

Do not apply when dew or rain is likely during drying.

Do not apply when temperature is below 5°C or above 35°C during application or drying period, or when humidity is very high.

25 YEAR WARRANTY FINISH COATS

Surface Type	Preparatory Coats
Previously Painted Surfaces	Apply 3 coats of Wattyl Solagard Low Sheen as per specification.
Bare Timber	Apply 3 coats of Wattyl Solagard Low Sheen as per specification.
Bare Cement Render, Brick, Fibre Cement and Masonry	Apply 3 coats of Wattyl Solagard Low Sheen as per specification.
Galvanised Iron Sheet and Zinalume®	Apply 3 coats of Wattyl Solagard Low Sheen as per specification.

For full specifications refer to: www.wattyl.com.au or www.wattyl.co.nz.

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Additional Data

Available in 1, 4, 10 and 15 litre containers.
 Tinted paint is not returnable. Choose your colours carefully. If using more than one can for the final coat, check that the colour is correct in all cans, and mix the paint together to ensure colour consistency before starting.
 Not suitable for walk on areas or areas with vehicular traffic such as driveways.
 Knots in LOSP treated pine may be a source of resin bleed which will discolour white and white tones.
 Containers must be secured and stored upright during transit.
 Containers must not be exposed to excessive heat or cold.
 Store in a secure, cool and well ventilated place. Keep container tightly closed.
 The use of proprietary additives other than those manufactured by Wattyl is not recommended.
 Do not use for any other purpose other than as specified in our literature.

Safety Data

First Aid Instructions	<p>For advice, contact the Poisons Information Centre on 131 126 (Australia), 0800 764 766 (New Zealand), or a doctor. If in eyes, rinse cautiously with clean water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists seek medical advice/attention. If skin contact occurs remove contaminated clothing and flush contaminated skin with water. If inhaled remove from contaminated area to fresh air. If swallowed, do not induce vomiting. Give a glass of water to drink.</p>
Safety Directions	<p>Keep out of reach of children. Wear suitable Personal Protective Equipment (PPE) for application method. Avoid contact with skin and eyes. Wash hands thoroughly after use. Ensure adequate ventilation during use. Avoid prolonged breathing of vapour.</p>
Further Information	<p>For the latest information refer to the Safety Data Sheet available on our websites. Australia: www.wattyl.com.au or contact Wattyl Assist on 132 101. New Zealand: www.wattyl.co.nz or contact Wattyl Assist on 0800 825 7727.</p>

1. This information is provided with respect to the listed Hempel (Wattyl) Australia and Hempel (Wattyl) New Zealand products. Hempel (Wattyl) Australia and Hempel (Wattyl) New Zealand, hereon referred to as "Hempel (Wattyl)," recommends that:

(a) You review the Technical Data Sheets (TDS) and Safety Data Sheets (SDS) before you use or handle the product; (b) the product be used only in accordance with the information provided by Hempel (Wattyl); (c) the product be transported and handled in accordance with the SDS and relevant TDS; and (d) you thoroughly test the product, using the recommended application method on a sample of intended substrate, before using the product.

2. The information in the TDS was prepared using information gathered during product development. While Hempel (Wattyl) endeavour to update this information and maintain the accuracy of its contents, Hempel (Wattyl) cannot guarantee that the information is wholly comprehensive.

3. Hempel (Wattyl) recommend that you conduct such additional investigations as may be necessary to satisfy yourself of the accuracy, currency and comprehensiveness of the information on which you rely in using and handling the product. If you require further information please contact your nearest office of Hempel (Wattyl).

4. To the full extent permitted by law, the liability of Hempel (Wattyl) for breach of a condition or warranty implied into the contract for sale between Hempel (Wattyl) and you by law is limited at the election of Hempel (Wattyl) to: (a) the replacement of the product; or (b) payment of the cost of replacing the product.

All brands and product names are registered trademarks of Hempel (Wattyl) Australia Pty Ltd ABN 40 000 035 914 and Hempel (Wattyl) New Zealand Pty Ltd 942 904 073 3692.

In Australia, Colorbond® and Zinalume® are registered trademarks of Blue Scope Steel Limited.

In New Zealand, Colorsteel® Zinalume® are registered trademarks of New Zealand Steel Limited.

WATTYL ASSIST: Ph: 132 101 (AUSTRALIA)
 Ph: 0800 825 7727 (NEW ZEALAND)

SAFETY DATA SHEET

WATTYL SOLAGARD LOW SHEEN
WHITE BASE

814101

Section 1. Identification

Product name : WATTYL SOLAGARD LOW SHEEN
WHITE BASE

Product type : Liquid.

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

Manufacturer : VALSPAR PAINT (NZ) LIMITED
4-14 Patiki Road,
Avondale, Auckland, NZ 1026

Emergency telephone number (with hours of operation) : +(64)98010034
(Available 24 hrs/ 7 days)

e-mail address of person responsible for this SDS : sds@sherwin.com

Section 2. Hazards identification

HSNO Classification : AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 2

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

GHS label elements

Signal word : Warning

Hazard statements : Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Precautionary statements

General : Read label before use. Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Prevention : Avoid release to the environment.

Response : Collect spillage.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Symbol :



Other hazards which do not result in classification : Please refer to the SDS for additional information. Keep out of reach of children.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

Product code : 814101

Version : 10.01

Date of issue/Date of revision : 27, January, 2022
SHW-A4-AP-GHS-NZ

Section 3. Composition/information on ingredients

Ingredient name	% (w/w)	CAS number
Titanium Dioxide	19.7	13463-67-7
Barium Sulfate	9.2	7727-43-7
Propylene Glycol	3.4	57-55-6
Kaolin	2.7	1332-58-7
Trimethylpentanediol Isobutyrate	1.3	25265-77-4
Zinc Oxide	0.4	1314-13-2
Ammonium Hydroxide	0.1	1336-21-6
Diuron	0.0	330-54-1
Zinc Pyrithione	0.0	13463-41-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin** : No specific data.
- Eyes** : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Specific treatments** : No specific treatment.
- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 4. First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides

Hazchem code : Not available.

Special precautions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Titanium Dioxide	NZ HSWA 2015 (New Zealand, 11/2020). WES-TWA: 10 mg/m ³ 8 hours. Form: The value for inhalable dust containing no asbestos and less than 1% free silica.
Barium Sulfate	NZ HSWA 2015 (New Zealand, 11/2020). WES-TWA: 10 mg/m ³ 8 hours. Form: The value for inhalable dust containing no asbestos and less than 1% free silica.
Propylene Glycol	NZ HSWA 2015 (New Zealand, 11/2020). WES-TWA: 10 mg/m ³ 8 hours. Form: Particulate WES-TWA: 150 ppm 8 hours. Form: Vapor and particulates WES-TWA: 474 mg/m ³ 8 hours. Form: Vapor and particulates
Kaolin	NZ HSWA 2015 (New Zealand, 11/2020). WES-TWA: 10 mg/m ³ 8 hours. Form: Inhalable dust WES-TWA: 2 mg/m ³ 8 hours. Form: The value for respirable dust.
Zinc Oxide	NZ HSWA 2015 (New Zealand, 11/2020). WES-TWA: 2 mg/m ³ 8 hours. WES-STEL: 5 mg/m ³ 15 minutes. WES-TWA: 0.1 mg/m ³ 8 hours. Form: The value for respirable dust. WES-STEL: 0.5 mg/m ³ 15 minutes. Form: The value for respirable dust.
Diuron	NZ HSWA 2015 (New Zealand, 11/2020). WES-TWA: 10 mg/m ³ 8 hours.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Section 8. Exposure controls/personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : 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 before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : 8.5

Melting point/freezing point : Not available.

Boiling point, initial boiling point, and boiling range : 100°C (212°F)

Flash point : Closed cup: 103°C (217.4°F) [Pensky-Martens Closed Cup]

Evaporation rate : 0.09 (butyl acetate = 1)

Flammability : Not available.

Lower and upper explosion limit/flammability limit : Lower: 0.6%
Upper: 12.5%

Vapor pressure : 2.3 kPa (17.5 mm Hg)

Relative vapor density : 1 [Air = 1]

Section 9. Physical and chemical properties

Relative density	: 1.37
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm ² /s (>20.5 cSt)
Aerosol product	
Type of aerosol	: Not applicable.
Heat of combustion	: 1.847 kJ/g
Ignition distance	: Not applicable.
Enclosed space ignition - Time equivalent	: Not applicable.
Enclosed space ignition - Deflagration density	: Not applicable.
Flame height	: Not applicable.
Flame duration	: Not applicable.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on the likely routes of exposure

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Eye contact	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: No specific data.
Eye contact	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Acute toxicity

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Propylene Glycol	LD50 Dermal	Rabbit	20800 mg/kg	-
	LD50 Oral	Rat	20 g/kg	-
Trimethylpentanediol Isobutyrate	LD50 Oral	Rat	3200 mg/kg	-
Ammonium Hydroxide	LD50 Oral	Rat	350 mg/kg	-
Diuron	LD50 Dermal	Rat	>5 g/kg	-
	LD50 Oral	Rat	1 g/kg	-
Zinc Pyrithione	LC50 Inhalation Vapor	Rat	140 mg/m ³	4 hours
	LD50 Dermal	Rabbit	100 mg/kg	-
	LD50 Oral	Rat	177 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Propylene Glycol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Child	-	96 hours 30 % C	-
	Skin - Mild irritant	Human	-	168 hours 500 mg	-
	Skin - Moderate irritant	Human	-	72 hours 104 mg l	-
	Skin - Mild irritant	Woman	-	96 hours 30 %	-
Zinc Oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Ammonium Hydroxide	Eyes - Severe irritant	Rabbit	-	250 ug	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 mg	-

Sensitization

Not available.

Potential chronic health effects

- General** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Chronic toxicity

Not available.

Carcinogenicity

Not available.

Mutagenicity

Not available.

Section 11. Toxicological information

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Diuron	Category 1	oral	-
Zinc Pyrithione	Category 1	oral, inhalation	-

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Diuron	Category 1	oral	-
Zinc Pyrithione	Category 1	oral, inhalation	-

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Propylene Glycol	20000	20800	N/A	N/A	N/A
Trimethylpentanediol Isobutyrate	3200	N/A	N/A	N/A	N/A
Ammonium Hydroxide	350	N/A	N/A	N/A	N/A
Diuron	1000	N/A	N/A	N/A	N/A
Zinc Pyrithione	177	100	N/A	0.5	N/A

Section 12. Ecological information

Ecotoxicity : This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Barium Sulfate	Acute EC50 634 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
Propylene Glycol	Acute EC50 32 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 >110 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1020000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
Zinc Oxide	Acute LC50 710000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Ammonium Hydroxide Diuron	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 37 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
	Acute EC50 2.26 µg/l Marine water	Algae - Coccolithus huxleyi - Exponential growth phase	72 hours
	Acute EC50 0.0013 mg/l Fresh water	Algae - Chlorella pyrenoidosa	96 hours
	Acute EC50 0.005 mg/l Fresh water	Aquatic plants - Lemna sp.	96 hours

Section 12. Ecological information

Zinc Pyrethione	Acute EC50 7.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute IC50 2.41 µg/l Marine water	Aquatic plants - Halodule uninervis	72 hours
	Acute LC50 380 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 500 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic EC10 0.11 µg/l Fresh water	Algae - Fragilaria capucina - Exponential growth phase	96 hours
	Chronic NOEC 0.34 µg/l Marine water	Aquatic plants - Zostera muelleri	72 hours
	Chronic NOEC 26.4 ppb	Fish - Pimephales promelas	60 days
	Acute EC50 0.51 µg/l Marine water	Algae - Thalassiosira pseudonana	96 hours
	Acute EC50 38 µg/l Fresh water	Crustaceans - Ilyocypris dentifera	48 hours
	Acute EC50 8.25 ppb Fresh water	Daphnia - Daphnia magna	48 hours
Acute LC50 2.68 ppb Fresh water	Fish - Pimephales promelas	96 hours	
Chronic EC10 0.36 µg/l Marine water	Algae - Thalassiosira pseudonana	96 hours	
Chronic NOEC 2.7 ppb Fresh water	Daphnia - Daphnia magna	21 days	

Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Propylene Glycol	-	-	Readily
Trimethylpentanediol	-	-	Readily
Isobutyrate	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Zinc Oxide	-	28960	high
Diuron	-	5.2	low
Zinc Pyrethione	-	11	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Marine Pollutant
New Zealand Class	Not regulated.	-	-	-		No.
ADG Class	Not regulated.	-	-	-		No.
UN Class	Not regulated.	-	-	-		No.
ADR/RID Class	Not regulated.	-	-	-		No.
IATA Class	Not regulated.	-	-	-		No.
IMDG Class	Not regulated.	-	-	-		Not a pollutant.

Additional information

New Zealand Class	-
ADG Class	-
UN Class	-
ADR/RID Class	-
IATA Class	-
IMDG Class	-

PG* : Packing group

NZ NZS 14 Hazchem Code : Not available.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

HSNO Approval Number : HSR002670

HSNO Group Standard : Surface coatings and colourants

HSNO Classification : AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 2

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 15. Regulatory information

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

History

Date of printing : 27, January, 2022.

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Date of previous issue : 08, January, 2022

Version : 10.01

Key to abbreviations :

- ADG = Australian Dangerous Goods
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- SGG = Segregation Group
- UN = United Nations

References : Not available.

✔ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

