

1. Identification of Substance & Company

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|------------------------|---|
| Product | |
| Product name | James Hardie™ Base coat |
| Product code | NA |
| HSNO approval | HSR002670 |
| Approval description | Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 |
| UN number | NA |
| Proper Shipping Name | NA |
| Packaging group | NA |
| Hazchem code | 1T (recommended) |
| Uses | Finishing coating with James Hardie Top Coat |
| Company Details | |
| Company | James Hardie New Zealand Limited |
| Address | 50 O'Rorke Road, PO Box 12-070, Penrose, Penrose Auckland Auckland New Zealand New Zealand |
| Telephone | 0800 808 868 (CustomerLink) |

Emergency Telephone Number: 0800 764 766 (24 Hours)

2. Hazard Identification

| | |
|--|--------------------------|
| Approval | |
| This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002670, Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2017. | |
| Classes | Hazard Statements |

6.4A H320 - Causes eye irritation.

SYMBOLS
WARNING



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|---|
| Other Classifications |
| There are no other Classifications that are known to apply. |

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| Precautionary Statements |
| P103 - Read label before use. |
| P264 - Wash hands thoroughly after handling. |
| P280 - Wear eye protection. |
| P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 - If eye irritation persists: Get medical advice/attention. |

3. Composition / Information on Ingredients

| Component | CAS/ Identification | Concentration |
|--|---------------------|---------------|
| Calcium Carbonate | 471-34-1 | >60% |
| Propylene Glycol monomethyl ether | 107-98-2 | <1% |
| ingredients not contributing to HSNO classes | mixture | balance |

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid facilities Ready access to running water is required. Accessible eyewash is required.

Exposure

Swallowed Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.
Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.
Skin contact This product is non-irritating to skin. No further measures should be required.
Inhaled If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards: There are no specific risks for fire/explosion for this chemical. It is not classed as flammable.
Suitable extinguishing substances: Carbon dioxide, extinguishing powder, foam, fog sprays, water jets.
Unsuitable extinguishing substances: Unknown.
Products of combustion: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.
Protective equipment: No special measures are required.
Hazchem code: 1T (recommended)

6. Accidental Release Measures

Containment There is no current legal requirement for secondary containment of this product. Emergency plans to manage any potential spill must be in place. Prevent spillage from spreading or entering soil, waterways or drains.
Emergency procedures If a significant spill (>100L) occurs:
 Stop leak if safe/necessary; Isolate area. Collect spill – see below; Transfer to container for disposal. Dispose of according to guidelines below (Section 13).
Clean-up method Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create environmental hazard.
Disposal Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
Precautions Can be slippery on floors. Wear protective equipment (see section 8)

7. Storage & Handling

Storage Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.
Handling Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

| NZ Workplace Exposure Stds | Ingredient | WES-TWA | WES-STEL |
|----------------------------|-----------------------------------|------------------------------|------------------------------|
| | Calcium Carbonate | 10mg/m ³ | data unavailable |
| | Propylene Glycol monomethyl ether | 100ppm, 369mg/m ³ | 150ppm, 553mg/m ³ |

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety in Employment Act 1992 (HSE). Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. It is recommended that contact lenses are not worn while working with this product.

Skin

If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or sensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves. PVC gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use.

Respiratory

If sanding, sawing or grinding dried coating use a dust mask. A respirator when airborne concentrations approach the WES (section 8). Use a respirator with a dust mist cartridge. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

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| Appearance | light pink powder |
| Odour | cementitious |
| pH | no data |
| Vapour pressure | no data |
| Viscosity | no data |
| Boiling point | no data |
| Volatile materials | no data |
| Freezing / melting point | no data |
| Solubility | insoluble in water |
| Specific gravity / density | 1.3 |
| Flash point | non flammable |
| Danger of explosion | no data |
| Auto-ignition temperature | no data |
| Upper & lower flammable limits | no data |
| Corrosiveness | no data |

10. Stability & Reactivity

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|---|---|
| Stability | Stable |
| Conditions to be avoided | Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames. |
| Incompatible groups | none known |
| Substance Specific Incompatibility | none known |
| Hazardous decomposition products | none known |
| Hazardous reactions | none known |

11. Toxicological Information

Summary

IF IN EYES: may cause eye irritation.
 IF INHALED: dust may cause respiratory irritation.

Supporting Data

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|----------------|---|--|
| Acute | Oral | Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the mixture is >5,000 mg/kg. Data considered includes: Calcium Carbonate 6450mg/kg (rat), Propylene Glycol monomethyl ether 4600-5500mg/kg (dog). |
| | Dermal | No evidence of dermal toxicity. |
| | Inhaled | No evidence of inhalation toxicity, however dust from this product may be irritating to the respiratory tract (mechanical irritation). |
| | Eye | The mixture is considered to be an eye irritant. Calcium carbonate is considered an eye irritant by EPA (NZ) |
| | Skin | The mixture is not considered to be irritating to the skin. |
| Chronic | Sensitisation | No ingredient present at concentrations > 0.1% is considered a sensitizer. |
| | Mutagenicity | No ingredient present at concentrations > 0.1% is considered a mutagen. |
| | Carcinogenicity | No ingredient present at concentrations > 0.1% is considered a carcinogen. |
| | Reproductive / Developmental | No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation. |
| | Systemic | No ingredient present at concentrations > 1% is considered a target organ toxicant. |
| | Aggravation of existing conditions | None known. |

12. Ecological Data

Summary

This mixture is not considered to be ecotoxic.

Supporting Data

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|------------------------------------|--|
| Aquatic | Using EC ₅₀ 's for ingredients, the calculated EC ₅₀ for the mixture is > 100 mg/L. Data considered includes: Calcium Carbonate 0, Ammonia, aqueous solution 0.45 mg/l (96hr) Coho salmon, 0.66 mg/l (48hr) Daphnia magna. |
| Bioaccumulation | No evidence of bioaccumulation. |
| Degradability | No data |
| Soil | No evidence of soil toxicity. |
| Terrestrial vertebrate | This mixture is not considered toxic towards terrestrial vertebrates. |
| Terrestrial invertebrate | No evidence of toxicity towards terrestrial invertebrates. |
| Biocidal | no data |
| Environmental effect levels | No EELs are available for this mixture or ingredients |

13. Disposal Considerations

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| Restrictions | There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents. |
| Disposal method | Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment. |
| Contaminated packaging | Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging. |

14. Transport Information

There are no specific restrictions for this product (not a dangerous good).

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|---------------------|-----------------|------------------------------|------------------|
| UN number: | NA | Proper shipping name: | NA |
| Class(es) | NA | Packing group: | NA |
| Precautions: | Not applicable. | Hazchem code: | 1T (recommended) |

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002670, Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 . All ingredients appear on the NZIoC.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

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| SDS | To be available within 10 minutes in workplaces storing any quantity. |
| Labelling | No removal of labels and/or decanting of product into other containers can occur. |
| Emergency plan | Not required. |
| Certified handlers | Not required. |
| Tracking | Not required. |
| Bundling & secondary containment | Not required. |
| Signage | Not required. |
| Location test certificate | Not required. |
| Flammable zone | Not required. |
| Fire extinguisher | Not required. |

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

Abbreviations

| | |
|------------------------|--|
| Approval Code | Approval HSR002670, Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 Controls, EPA. www.epa.govt.nz |
| CAS Number | Unique Chemical Abstracts Service Registry Number |
| Ceiling | Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time. |
| Controls Matrix | List of default controls linking regulation numbers to Matrix code (e.g. T1, I16). |
| EC₅₀ | Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species) |
| EPA | Environmental Protection Authority (New Zealand) |
| HAZCHEM Code | Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters |
| HSNO | Hazardous Substances and New Organisms (Act and Regulations) |
| IARC | International Agency for Research on Cancer |
| LEL | Lower Explosive Limit |
| LD₅₀ | Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats). |
| LC₅₀ | Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats) |
| MSDS (SDS) | Material Safety Data Sheet (or Safety Data Sheet) |
| NZIoC | New Zealand Inventory of Chemicals |
| PES | Prescribed Exposure Standard means a WES or a biological exposure standard that is prescribed in a regulation, a safe work instrument or an approval under HSNO (including group standards). |
| STEL | Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded |
| TWA | Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours) |
| UEL | Upper Explosive Limit |
| UN Number | United Nations Number |
| WES | Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone. |

References

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|--------------------------|---|
| Data | Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID). |
| Controls | EPA notices, www.epa.govt.nz , Health and Safety at Work (Hazardous Substances) Regulations 2017, www.legislation.govt.nz |
| WES | The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz . |
| Other References: | Ingredients SDS |

Review

| Date | Reason for review |
|---------------|--|
| February 2015 | Not applicable – new SDS |
| December 2017 | Review section 2, 8, 15. |
| April 2019 | Logo change and name change, formatting. |

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

